



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 181255

TO: Ruixiang Li
Location: REM-4D59/4C70
Art Unit: 1646

March 14 2006

Case Serial Number: 10/782596

From: P. Sheppard
Location: Remsen Building
Phone: (571) 272-2529

sheppard@uspto.gov

Search Notes

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181255

STIC-Biotech/ChemLib

From: Li, Ruixiang
Sent: Saturday, March 04, 2006 9:34 AM
To: STIC-Biotech/ChemLib
Subject: Sequence search of Application No.10/782,596

Please do a standard search on:

(i). SEQ ID NO: 20 against amino acid databases (excluding pending databases).

Thank you very much!

Ruixiang Li
GAU 1646
REM 4D59
Mail Box 4C70
(571) 272-0875

Searcher: _____
Searcher Phone: _____
Date Searcher Picked up: _____
Date completed: _____
Searcher Prep Time: _____
Online Time: _____

Type of Search
NA# _____ AA# _____
S/L: _____ Oligomer: _____
Encode/Transl: _____
Structure #: _____ Text: _____
Inventor: _____ Litigation: _____

Vendors and cost where applicable
STN: _____
DIALOG: _____
QUESTEL/ORBIT: _____
LEXIS/NEXIS: _____
SEQUENCE SYSTEM: _____
WWW/Internet: _____
Other (Specify): _____

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GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

OM protein - protein search, using bw model

Run on: March 7, 2006, 12:47:14 ; Search time 232 Seconds
(without alignments)
1134.319 Million cell updates/sec

Title: US-10-782-596-20

Perfect score: 1992
Sequence: 1 MANTIGEPREVSALSPESA.....HAPCWGTGAPAPRPPYCVW 373

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2166443 seqs, 705528306 residues

Total number of hits satisfying chosen parameters: 2166443

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Pass :
1: uniprot_05.80:*
2: uniprot_sprot:*
3: uniprot_trembl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1986	99.7	373	1 GP173_HUMAN	Q9ns66 homo sapien
2	1986	99.7	373	2 Q5HYQ4_HUMAN	Q5HYQ4 homo sapien
3	1977	99.2	373	2 Q5E9H8_BOVIN	Q5E9H8 bos taurus
4	1975	99.1	373	1 GP173_MOUSE	Q6p162 mus musculu
5	1975	99.1	373	1 GP173_RAT	Q9j1h2 rattus norv
6	1975	99.1	373	2 Q4VA66_MOUSE	Q4VA66 mus musculu
7	1625.5	81.6	387	1 GP173_BRARE	Q91919 brachydantio
8	1464	73.5	349	2 Q4S5Y6_TETNG	Q4S5Y6 tetraodon n
9	1344	67.5	328	2 Q4T258_TETNG	Q4T258 tetraodon n
10	1291.5	64.8	370	2 Q5U576_XENLA	Q5U576 xenopus lae
11	1291.5	64.8	371	2 Q4RHK7_TETNG	Q4RHK7 tetraodon n
12	1288.5	64.7	370	1 GPR85_HUMAN	P60893 homo sapien
13	1288.5	64.7	370	1 GPR85_MOUSE	P60895 mus musculu
14	1288.5	64.7	370	1 GPR85_RAT	O8nm22 rattus norv
15	1288.5	64.7	370	2 Q8NEN2_HUMAN	O8nm22 homo sapien
16	1288.5	64.7	370	2 Q6ZMR2_MOUSE	Q6ZMR2 mus musculu
17	1288.5	64.7	371	1 GPR85_BRARE	Q91919 brachydantio
18	1278.5	64.2	370	2 Q5R8G7_PONPY	Q5R8G7 pongo pygma
19	1129	56.7	292	2 Q4SR11_TETNG	Q4SR11 tetraodon n
20	1031	51.8	375	1 GPR27_HUMAN	Q9nm67 homo sapien
21	1031	51.4	377	1 GPR27_RAT	Q9j1h3 rattus norv
22	1022	51.3	379	1 GPR27_MOUSE	Q54837 mus musculu
23	963	48.3	187	2 Q8OT44_MOUSE	Q8OT44 mus musculu
24	583	29.3	281	2 Q4R8W0_MACFA	Q4R8W0 macaca fasc
25	275	13.8	357	2 Q6TLJ0_MUSPF	Q6TLJ0 muscicola put
26	274	13.6	501	2 Q4T4J3_TETNG	Q4T4J3 tetraodon n
27	270.5	13.6	456	2 Q8T0Y4_APIRE	Q8T0Y4 apis mellif
28	269.5	13.5	470	1 SHT2A_FIG	P50129 sus scrofa
29	267.5	13.4	470	1 SHT2A_BOVIN	Q75289 bos taurus
30	266.5	13.4	470	1 SHT2A_CANFA	Q46635 canis famli
31	266.5	13.4	470	2 Q50D29_CANFA	Q50D29 canis famli

32	264	13.3	387	1 DRD4_MOUSE	P51436 mus musculu
33	264	13.3	389	2 Q7TT80_MOUSE	Q7TT80 mus musculu
34	261.5	13.1	387	2 Q8BXS4_MOUSE	Q8BXS4 mus musculu
35	261	13.1	382	2 Q5DJ14_BRARE	Q5DJ14 brachydantio
36	261	13.1	400	1 DRD3_PANTR	Q51672 pan troglod
37	260	13.1	400	1 DRD3_HUMAN	P35462 homo sapien
38	260	13.1	400	2 Q4VBM8_HUMAN	Q4VBM8 homo sapien
39	259.5	13.0	471	1 SHT2A_CRIGR	P18599 cricetus
40	259.5	13.0	471	1 SHT2A_MACMU	P50128 macaca mula
41	259.5	13.0	471	1 SHT2A_MOUSE	P35363 mus musculu
42	259.5	13.0	471	1 SHT2A_RAT	P14842 rattus norv
43	259.5	13.0	471	2 Q543D4_MOUSE	Q543d4 mus musculu
44	258	13.0	439	2 Q5ISK8_MACFA	Q5ISK8 macaca fasc
45	257	12.9	471	1 SHT2A_HUMAN	P28223 homo sapien

ALIGNMENTS

RESULT 1
GP173_HUMAN STANDARD; PRT; 373 AA.
ID GP173_HUMAN
AC Q9NS66;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Probable G-protein coupled receptor 173 (Super conserved receptor expressed in brain 3).
GN Name=GP173; Synonyms=SRB3;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
OC Homo.
OX NCBI_TaxID=9606;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC TISSUE=Brain;
RP NUCLEOTIDE SEQUENCE.
RX MEDLINE=20294882; PubMed=10833454; DOI=10.1006/birc.2000.2829;
RA Matsumoto M., Saito T., Takasaki J., Kamohara M., Sugimoto T., Kobayashi M., Tadokoro M., Matsumoto S., Ohishi T., Furuchi K., "An evolutionarily conserved G-protein coupled receptor family, SRB, expressed in the central nervous system.", Biochem. Biophys. Res. Commun. 272:576-582 (2000).
RL Biochem. Biophys. Res. Commun. 272:576-582 (2000).
RN [2]
RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].
RC TISSUE=Lung;
RX MEDLINE=22368257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G., Schuler G.D., Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Bhat N.K., Altschul S.F., Zeeberg B., Buettow K.H., Schaefer C.F., Hsieh F., Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Heide F., Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L., Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E., Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Frange C., Raha S.S., Loughellano N.A., Peters G.J., Abramson R.D., Mullany S.J., Bosak S.A., McKernan K.J., Malek J.A., Gunaratne P.H., Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W., Villalon D.K., Murny D.M., Sodergren E.J., Lu X., Gibbs R.A., Fahey J., Heltan E., Kettelman M., Madan A., Rodriguez S., Sanchez A., Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G., Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C., Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.N., Krzywicki M.I., Skalek U., Smaluk D.E., Schnerch A., Schein J.E., Jones S.J.M., Marra M.A., "Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences.", Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
RL -1- FUNCTION: Orphan receptor.
CC -1- SUBCELLULAR LOCATION: Integral membrane protein (By similarity).
CC -1- TISSUE SPECIFICITY: Expressed at high levels in brain and ovary.
CC Lower levels in small intestine. In brain regions, detected in all regions tested. Highest levels in the cerebellum and cerebral cortex.

DT 10-MAY-2005 (Tremblrel. 30, last sequence update)
 DT 10-MAY-2005 (Tremblrel. 30, last annotation update)
 DE G-protein coupled receptor 173.
 GN Name=GPR173;
 OS Bos taurus (Bovine).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
 OC Pecora; Bovidae; Bovinae; Bos.
 NCBI_TaxID=9913;
 [1]
 RP NUCLEOTIDE SEQUENCE.
 RC TISSUE=Poiled;
 RC MEDLINE=21180013; PubMed=11282978; DOI=10.1101/gr.170101;
 RA Smith T.P.L., Grosse W.M., Freking B.A., Roberts A.J., Stone R.T.,
 RA Casse E., Wray J.E., White J., Cho J., Fahrenkrug S.C., Bennett G.L.,
 RA Heaton M.P., Laegreid W.W., Rohrer G.A., Chiklo-Mckown C.G.,
 RA Perera G., Holt I., Karamycheva S., Liang F., Quackenbush J.,
 RA Keele J.W.;
 RT "Sequence evaluation of four pooled-tissue normalized bovine CDNA
 RT libraries and construction of a gene index for cattle."
 RL Genome Res. 11:626-630 (2001).
 RN [2]
 RP NUCLEOTIDE SEQUENCE.
 RC TISSUE=Poiled;
 RA Hartley G.P., Sonstegard T.S., Clawson M.L., Heaton M.P., Keele J.W.,
 RA Snelling W.M., Weidmann R.T., Smith T.P.L.;
 RT "Sequencing and analysis of Bos taurus full-length insert cDNA
 RT clones."
 RL Submitted (FEB-2005) to the EMBL/GenBank/DBJ databases.
 CC -1- SUBCELLULAR LOCATION: Integral membrane protein (By similarity).
 CC EMBL; B020942; AAX08959.1; -; mRNA.
 DR GO; GO:0016021; C:integral to membrane; IEA.
 DR GO; GO:0004872; F:receptor activity; IEA.
 DR GO; GO:0001584; F:rhodopsin-like receptor activity; IEA.
 DR GO; GO:0007186; P:G-protein coupled receptor protein signaling. . .; IEA.
 DR InterPro; IPR000276; GPCR_Rhodopsin.
 DR Pfam; PF00001; 7tm.1; 1.
 DR PRINTS; PR00237; GPCR_Rhodopsin.
 DR PROSITE; PS50262; G_PROTEIN_RECPT_F1_2; 1.
 KW G-protein coupled receptor; Receptor; Transducer; Transmembrane.
 SQ SEQUENCE 373 AA; 41479 MW; C396849BC4AA3D CRC64;

Query Match 99.2%; Score 1977; DB 2; Length 373;
 Best Local Similarity 99.2%; Pred. No. 9.3e-145;
 Matches 370; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 MANTTGEPEVSGALSPPSASAVYKLVLLGLIMCVSLAGNAILSLVTKERALKKAPYF 60
 DB 1 MANTTGEPEVSGALSPPSAVYKLVLLGLIMCVSLAGNAILSLVTKERALKKAPYF 60
 QY 61 LLDLCLADGIRAVCPFFVLASVRRGSSWTFPSALSKTYAFNAVLCFPHAAFMFLFCISVT 120
 DB 61 LLDLCLADGIRAVCPFFVLASVRRGSSWTFPSALSKTYAFNAVLCFPHAAFMFLFCISVT 120
 QY 121 RYMAIAHHRFVYKBMFLMTCAVVICAMVLSVMAFPVDDGTGYFIEEDOCIFEHRY 180
 DB 121 RYMAIAHHRFVYKBMFLMTCAVVICAMVLSVMAFPVDDGTGYFIEEDOCIFEHRY 180
 QY 181 FRANDTLGFMLMLAVLMAATHAVYGLLFEYRHRKMKQVQWPAISQMTFHGPGATQ 240
 DB 181 FRANDTLGFMLMLAVLMAATHAVYGLLFEYRHRKMKQVQWPAISQMTFHGPGATQ 240
 QY 241 AAANNIAGRGGRMPPTLLGIRONGHAAARRLLGNDVYGEKQLGMEFAITLLFLLMS 300
 DB 241 AAANNIAGRGGRMPPTLLGIRONGHAAARRLLGNDVYGEKQLGMEFAITLLFLLMS 300
 QY 301 PTIVACYMFVFKACVPHRYLATAYWMSFAQAAVNPICPLINKDKKCLTTHAPCMGT 360
 DB 301 PTIVACYMFVFKACVPHRYLATAYWMSFAQAAVNPICPLINKDKKCLTTHAPCMGT 360
 QY 361 GGAPAPRPFCYVM 373
 DB 361 GGAPAPRPFCYVM 373

DB 361 GGAPAPRPFCYVM 373

RESULT 4
 ID GPR173_MOUSE STANDARD; PRT; 373 AA.
 AC Q6P162;
 DT 25-OCT-2004 (Rel. 45, Created)
 DT 25-OCT-2004 (Rel. 45, last sequence update)
 DT 13-SEP-2005 (Rel. 48, last annotation update)
 DE Probable G-protein coupled receptor 173 (Super conserved receptor
 DE expressed in brain 3).
 GN Name=Gpr173; Synonyms=Streb3;
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
 OC Muridae; Muridae; Murinae; Mus.
 NCBI_TaxID=10090;
 [1]
 RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].
 RC STRAIN=C57BL/6; TISSUE=Brain;
 RC MEDLINE=22386257; PubMed=12477932; DOI=10.1073/pnas.242603899;
 RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
 RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
 RA Altshuler S.F., Zeeberg B., Bueltow K.H., Schaefer C.F., Bhat N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
 RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
 RA Brownstein M.U., Uebachs J.B., Toshlyuk S., Carninci P., Frange C.,
 RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,
 RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
 RA Richards S., Worley K.C., Hale S.G., Garcia A.M., Gay L.J., Hultky S.W.,
 RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
 RA Fahy J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
 RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
 RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
 RA Butlerfield V.S.N., Krzywicki M.J., Skalska U., Smalls D.E.,
 RA Scherch A., Schein J.E., Jones S.J.M., Marra M.A.;
 RT "Generation and initial analysis of more than 15,000 full-length human
 RT and mouse cDNA sequences";
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
 CC -1- FUNCTION: Orphan receptor.
 CC -1- SUBCELLULAR LOCATION: Integral membrane protein (By similarity).
 CC -1- SIMILARITY: Belongs to the G-protein coupled receptor 1 family.
 CC This Swiss-Prot entry is copyright. It is produced through a collaboration
 CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
 CC the European Bioinformatics Institute. There are no restrictions on its
 CC use as long as its content is in no way modified and this statement is not
 CC removed.

 CC EMBL; BC043021; AAH43021.1; -; mRNA.
 DR MGI; MGI:1918021; Gpr173.
 DR InterPro; IPR000276; GPCR_Rhodopsin.
 DR Pfam; PF00001; 7tm.1; 1.
 DR PRINTS; PR00237; GPCR_Rhodopsin.
 DR PROSITE; PS50237; G_PROTEIN_RECPT_F1_1; FALSE_NEG.
 DR PROSITE; PS50262; G_PROTEIN_RECPT_F1_2; 1.
 KW G-protein coupled receptor; Glycoprotein; Multigene family; Receptor;
 KW Transducer; Transmembrane.
 FT TOPO_DOM 1 26
 FT TRANSMEM 27 47
 FT TOPO_DOM 48 59
 FT TRANSMEM 60 80
 FT TOPO_DOM 81 97
 FT TRANSMEM 98 118
 FT TOPO_DOM 119 139
 FT TRANSMEM 140 160
 FT TOPO_DOM 161 188
 FT TRANSMEM 189 209
 FT TOPO_DOM 210 287
 FT TRANSMEM 288 308
 FT TRANSMEM 288 308

1 (Potential).
 1 (Potential).
 2 (Potential).
 Extracellular (Potential).
 3 (Potential).
 Cytoplasmic (Potential).
 4 (Potential).
 Extracellular (Potential).
 5 (Potential).
 Cytoplasmic (Potential).
 6 (Potential).

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CC TOPO_DOM 309 322 Extracellular (Potential).
FT TRANSMEM 323 343 7 (Potential).
FT TOPO_DOM 344 373 Cytoplasmic (Potential).
FT CARBOHYD 3 3 N-linked (GlcNAc...) (Potential).
FT CARBOHYD 184 184 N-linked (GlcNAc...) (Potential).
FT DISULFID 96 174 By similarity.
SQ SEQUENCE 373 AA; 41511 MW; C06DEA2F0B88C4F5 CRC64;

Query Match
Similarity 99.1%; Score 1975; DB 1; Length 373;
Best Local Similarity 99.2%; Pred. No. 1.3e-144; Mismatches 2; Indels 0; Gaps 0;
Matches 370; Conservative 1;

1 MANTTGEPEVSGALSPPSASAYVVKLVYLGLIMCVSLAGNALISLVLKERALHKAPYF 60
1 MANTTGEPEVSGALSPPSASAYVVKLVYLGLIMCVSLAGNALISLVLKERALHKAPYF 60
1 MANTTGEPEVSGALSPPSASAYVVKLVYLGLIMCVSLAGNALISLVLKERALHKAPYF 60
61 LLDLCIADGIRSAVCEPFLASVRHSSWTFSSALCKIYAFMAVLFCHFAAFMLFCISVT 120
61 LLDLCIADGIRSAVCEPFLASVRHSSWTFSSALCKIYAFMAVLFCHFAAFMLFCISVT 120
61 LLDLCIADGIRSAVCEPFLASVRHSSWTFSSALCKIYAFMAVLFCHFAAFMLFCISVT 120
121 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLVSAMAPPPVDGTYKFIREDQCIFEHRY 180
121 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLVSAMAPPPVDGTYKFIREDQCIFEHRY 180
121 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLVSAMAPPPVDGTYKFIREDQCIFEHRY 180
181 FRANDTIGFMLMLAVLMAATHAVYKLLLFYRHRMKRVQWPAISQWTFHGPATGQ 240
181 FRANDTIGFMLMLAVLMAATHAVYKLLLFYRHRMKRVQWPAISQWTFHGPATGQ 240
181 FRANDTIGFMLMLAVLMAATHAVYKLLLFYRHRMKRVQWPAISQWTFHGPATGQ 240
241 AAANWJAGFGRGMPPTLLGIRONGHAAARRLLGMDVGEKQLGMPFYAITLLFLLWS 300
241 AAANWJAGFGRGMPPTLLGIRONGHAAARRLLGMDVGEKQLGMPFYAITLLFLLWS 300
241 AAANWJAGFGRGMPPTLLGIRONGHAAARRLLGMDVGEKQLGMPFYAITLLFLLWS 300
241 AAANWJAGFGRGMPPTLLGIRONGHAAARRLLGMDVGEKQLGMPFYAITLLFLLWS 300
301 PYIVACYWVVFYKACVPHRYLATAVWMSFAQAAVNPVFCFLINKDKCLRTTHACWGT 360
301 PYIVACYWVVFYKACVPHRYLATAVWMSFAQAAVNPVFCFLINKDKCLRTTHACWGT 360
301 PYIVACYWVVFYKACVPHRYLATAVWMSFAQAAVNPVFCFLINKDKCLRTTHACWGT 360
361 GGAPAREPFCVM 373
361 GGAPAREPFCVM 373
361 GGAPAREPFCVM 373
361 GGAPAREPFCVM 373

RESULT 5
GP173 RAT STANDARD; PRT; 373 AA.
(1)
AC Q9UTR2;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Probable G-protein coupled receptor 173 (Super conserved receptor
DE expressed in brain 3).
GN Name=Gpr173; Synonyms=Stre3;
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridae; Murinae; Murinae; Rattus.
OC NCBI_TaxID=10116;
RN (1)
RP NCLEOTIDE SEQUENCE.
RX MEDLINE=20294882; PubMed=10833454; DOI=10.1006/dbrc.2000.2829;
RA Matsumoto M., Saito T., Takasaki J., Kamohara M., Sugimoto T.,
RA Kobayashi M., Tadokoro M., Matsumoto S., Ohishi T., Furutachi K.,
RT "An evolutionarily conserved G-protein coupled receptor family, SREB,
RT expressed in the central nervous system."
RL Biochem. Biophys. Res. Commun. 272:576-582(2000).
CC -1- FUNCTION: Orphan receptor.
CC -1- SUBCELLULAR LOCATION: Integral membrane protein (By similarity).
CC -1- SIMILARITY: Belongs to the G-protein coupled receptor 1 family.
CC This Swiss-Prot entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL Outstation
CC the European Bioinformatics Institute. There are no restrictions on its
CC use as long as its content is in no way modified and this statement is not
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CC removed.
CC -----
CC EMBL: AB040804; BAA9650.1; -; mRNA.
CC RGD: 620748; Stre3.
CC InterPro: IPR00276; GPCR_Rhodopsn.
CC Pfam: PF00001; 7tm.1; 1.
CC PRINTS: PR00237; GPCR_Rhodopsn.
CC PROSITE: PS00237; G_PROTEIN_RECEP_F1_1; FALSE_NEG.
CC PROSITE: PS00262; G_PROTEIN_RECEP_F1_2; 1.
CC G-protein coupled receptor; Glycoprotein; Multigene family; Receptor;
CC Transducer; Transmembrane.
CC TOPO_DOM 1 26 Extracellular (Potential).
CC TRANSMEM 27 47 1 (Potential).
CC TOPO_DOM 48 59 Cytoplasmic (Potential).
CC TRANSMEM 60 80 2 (Potential).
CC TOPO_DOM 81 97 Extracellular (Potential).
CC TRANSMEM 98 118 3 (Potential).
CC TOPO_DOM 119 139 Cytoplasmic (Potential).
CC TRANSMEM 140 160 4 (Potential).
CC TOPO_DOM 161 188 Extracellular (Potential).
CC TRANSMEM 189 209 5 (Potential).
CC TOPO_DOM 210 287 Cytoplasmic (Potential).
CC TRANSMEM 288 308 6 (Potential).
CC TOPO_DOM 309 322 Extracellular (Potential).
CC TRANSMEM 323 343 Cytoplasmic (Potential).
CC TOPO_DOM 344 373 N-linked (GlcNAc...) (Potential).
CC CARBOHYD 3 3 N-linked (GlcNAc...) (Potential).
CC CARBOHYD 184 184 N-linked (GlcNAc...) (Potential).
CC DISULFID 96 174 By similarity.
SQ SEQUENCE 373 AA; 41511 MW; C06DEA2F0B88C4F5 CRC64;

Query Match
Similarity 99.1%; Score 1975; DB 1; Length 373;
Best Local Similarity 99.2%; Pred. No. 1.3e-144; Mismatches 2; Indels 0; Gaps 0;
Matches 370; Conservative 1;

1 MANTTGEPEVSGALSPPSASAYVVKLVYLGLIMCVSLAGNALISLVLKERALHKAPYF 60
1 MANTTGEPEVSGALSPPSASAYVVKLVYLGLIMCVSLAGNALISLVLKERALHKAPYF 60
1 MANTTGEPEVSGALSPPSASAYVVKLVYLGLIMCVSLAGNALISLVLKERALHKAPYF 60
61 LLDLCIADGIRSAVCEPFLASVRHSSWTFSSALCKIYAFMAVLFCHFAAFMLFCISVT 120
61 LLDLCIADGIRSAVCEPFLASVRHSSWTFSSALCKIYAFMAVLFCHFAAFMLFCISVT 120
61 LLDLCIADGIRSAVCEPFLASVRHSSWTFSSALCKIYAFMAVLFCHFAAFMLFCISVT 120
121 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLVSAMAPPPVDGTYKFIREDQCIFEHRY 180
121 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLVSAMAPPPVDGTYKFIREDQCIFEHRY 180
121 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLVSAMAPPPVDGTYKFIREDQCIFEHRY 180
181 FRANDTIGFMLMLAVLMAATHAVYKLLLFYRHRMKRVQWPAISQWTFHGPATGQ 240
181 FRANDTIGFMLMLAVLMAATHAVYKLLLFYRHRMKRVQWPAISQWTFHGPATGQ 240
181 FRANDTIGFMLMLAVLMAATHAVYKLLLFYRHRMKRVQWPAISQWTFHGPATGQ 240
241 AAANWJAGFGRGMPPTLLGIRONGHAAARRLLGMDVGEKQLGMPFYAITLLFLLWS 300
241 AAANWJAGFGRGMPPTLLGIRONGHAAARRLLGMDVGEKQLGMPFYAITLLFLLWS 300
241 AAANWJAGFGRGMPPTLLGIRONGHAAARRLLGMDVGEKQLGMPFYAITLLFLLWS 300
241 AAANWJAGFGRGMPPTLLGIRONGHAAARRLLGMDVGEKQLGMPFYAITLLFLLWS 300
301 PYIVACYWVVFYKACVPHRYLATAVWMSFAQAAVNPVFCFLINKDKCLRTTHACWGT 360
301 PYIVACYWVVFYKACVPHRYLATAVWMSFAQAAVNPVFCFLINKDKCLRTTHACWGT 360
301 PYIVACYWVVFYKACVPHRYLATAVWMSFAQAAVNPVFCFLINKDKCLRTTHACWGT 360
361 GGAPAREPFCVM 373
361 GGAPAREPFCVM 373
361 GGAPAREPFCVM 373
361 GGAPAREPFCVM 373

RESULT 6
Q4VA66_MOUSE
ID Q4VA66_MOUSE PRELIMINARY; PRT; 373 AA.
AC Q4VA66;
DT 13-SEP-2005 (TrEMBLrel. 31, Created)
DT 13-SEP-2005 (TrEMBLrel. 31, Last sequence update)
DT 13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
DE Super conserved receptor expressed in brain 3.
GN Name=Gpr173;
```


QY 61 LLDLCIADGIRSAVCPFFVLASVRHSSWTFSAISCKIVAFMAVLFCEFAAFMLFCISVT 120
DB 75 LLDLCIADGIRSAVCPFFVLASVRHSSWTFSAISCKIVAFMAVLFCEFAAFMLFCISVT 134
QY 121 RYMAIAHHRFFYAKRMTLMTCAVTCAMTSLVAMAPPPVDVGTGYFIREDOCTFEHRY 180
DB 135 RYMAIAHHRFFYAKRMTLMTCAVTCAMTSLVAMAPPPVDVGTGYFIREDOCTFEHRY 194
QY 181 FXANDTLGFMMLMAVLAATVAVYGLLLPEYRHRKRPVQWPAISQMTFHPGATGQ 240
DB 195 FXANDTLGFMMLMAVLAATVAVYGLLLPEYRHRKRPVQWPAISQMTFHPGATGQ 254
QY 241 AAANWAGFGGMPPTLLGIRONGHAASRRLGMDVKGEGKQGRMFYATLLFLLMS 300
DB 255 AAANWAGFGGMPPTLLGIRONGHAASRRLGMDVKGEGKQGRMFYATLLFLLMS 314
QY 301 PYIVACYWRFVYKACVPHRYLATVWMSFAQAAVNPVYICELLNKKCLTTHACMGT 360
DB 315 PYIVACYWRFVYKACVPHRYLATVWMSFAQAAVNPVYICELLNKKCLTTHACMGT 374
QY 361 GGAPARREBYCYM 373
DB 375 TEPQLREBYCYM 387

•RESULT 8
Q4S5Y6_TETNG
ID Q4S5Y6_TETNG PRELIMINARY; PRT; 349 AA.
AC Q4S5Y6;
DT 13-SRP-2005 (TrEMBLrel. 31, Created)
DT 13-SRP-2005 (TrEMBLrel. 31, Last sequence update)
DT 13-SRP-2005 (TrEMBLrel. 31, Last annotation update)
DE Chromosome 9 SCAF14729, whole genome shotgun sequence.
DE (Fragment).
GN ORFNames=GSTENG00023531001;
OS Tetradodon nigroviridis (Green puffer).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
OC Acanthomorpha; Acanthopterygii; Percomorpha; Tetraodontiformes;
OC Tetraodontidae; Tetraodontidae; Tetraodon.
OC NCBI_TaxId=99883;
[1]
NUCLEOTIDE SEQUENCE.
RP Jallion O., Aury J.M., Brunet F., Petit J.L., Strange-Thomann N.,
Mauceli E., Bouneau L., Fischer C., Ozouf-Coetz C., Bernot A.,
Nicad S., Jaffe D., Fisher S., Lutfalla G., Dossat C., Segurens B.,
Dasilva C., Salanoubat M., Levy M., Boudet N., Castellano S.,
Ranhouard V., Jubin C., Castell V., Katinka M., Vacherie B.,
Biemont C., Skalli Z., Cattolico L., Poulain J., De Berardinis V.,
Cruaud C., Duprat S., Brottier P., Coutanceau J.P., Gouzy J.,
Perra G., Lardier G., Chappie C., McKernan K.J., McEwan P., Bosak S.,
Kellis M., Volff J.N., Guigo R., Zody M.C., Mesirov J.,
Ranhouard V., Jubin C., Castell V., Katinka M., Vacherie B.,
Lindblad-Toh K., Birren B., Nusbaum C., Kahn D., Robinson-Rechavi M.,
Lauder V., Schachter V., Querier F., Saurin W., Scarpelli C.,
Wincker P., Lander E.S., Weissbach J., Roest Crollius H.;
RT "Genome duplication in the teleost fish Tetraodon nigroviridis reveals
the early vertebrate proto-karyotype.";
RL Nature 431:946-957(2004).
[2]
NCLEOTIDE SEQUENCE.
RP Genoscope; Whitehead Institute Centre for Genome Research;
RG Submitted (FEB-2004) to the EMBL/GenBank/DBJ databases.
CC -1- CAUTION: The sequence shown here is derived from an
CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
CC preliminary data.
DR EMBL; CAE01014729; CAG03946.1; -; Genomic_DNA.
DR InterPro; IPR000276; GPCR_Rhodopsin.
DR Pfam; PF00001; 7tm_1; 1..1.
DR PRINTS; PR00237; GPCR_Rhodopsin.
DR PROSITE; PS50262; G_PROTEIN_RECEP_F1_2; 1.
KW G-protein coupled receptor; Receptor; Transducer; Transmembrane.
FT NON_TER 1 1

SQ SEQUENCE 349 AA; 39392 MW; 9CAAA81B4F7C722 CRC64;
Query Match 73.5%; Score 1464; DB 2; Length 349;
Best Local Similarity 80.0%; Pred. No. 4,2e-105;
Matches 260; Conservative 35; Mismatches 30; Indels 0; Gaps 0;
QY 13 GALSPPSAAYKVLVGLIGVCSLAGNAIISLVLKRALHKAPYFLDLCLADGINS 72
DB 1 GGISATDVSAFKLVFLGILICVSLVGNLVSLLVLRDRTHKAPYFLDLCLADAVNS 60
QY 73 AVCFPFVLASVRHSSWTFSAISCKIVAFMAVLFCEFAAFMLFCISVTRYMAIAHHRFYA 132
DB 61 AACFPFVLASVANSAMTYSAISCKIVAFMAVLFCEFAAFMLFCVAVTRYMAIAHHRFYA 120
QY 133 KMTLMTCAVTCAMTSLVAMAPPPVDVGTGYFIREDOCTFEHRYFXANDTLGFMML 192
DB 121 KMTLMTCAVTCAMTSLVAMAPPPVDVGTGYFIREDOCTFEHRYLKTNDTLGFMML 180
QY 193 LAVMAATHAVYGLLLPEYRHRKRPVQWPAISQMTFHPGATGQAAANWAGFGG 252
DB 181 LAVVLAATHGFYAKLLPEYRHRKRPVQWPAISQMTFHPGATGQAAANWAGFGG 240
QY 253 EMPPTLLGIRONGHAASRRLGMDVKGEGKQGRMFYATLLFLLMSPYIVACYWRFV 312
DB 241 EMPPTLLGIRONGHAASRRLGMDVKGEGKQGRMFYATLLFLLMSPYIVACYWRFV 300
QY 313 KCAVPHRYLATVWMSFAQAAVNP 337
DB 301 KCSIPHOYLSITVWMSFAQAAVNP 325

RESULT 9
Q4T258_TETNG
ID Q4T258_TETNG PRELIMINARY; PRT; 328 AA.
AC Q4T258;
DT 13-SRP-2005 (TrEMBLrel. 31, Created)
DT 13-SRP-2005 (TrEMBLrel. 31, Last sequence update)
DT 13-SRP-2005 (TrEMBLrel. 31, Last annotation update)
DE Chromosome undetermined SCAF10335, whole genome shotgun sequence.
DE (Fragment).
GN ORFNames=GSTENG000848001;
OS Tetradodon nigroviridis (Green puffer).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
OC Acanthomorpha; Acanthopterygii; Percomorpha; Tetraodontiformes;
OC Tetraodontidae; Tetraodontidae; Tetraodon.
OC NCBI_TaxId=99883;
[1]
NUCLEOTIDE SEQUENCE.
RP Jallion O., Aury J.M., Brunet F., Petit J.L., Strange-Thomann N.,
Mauceli E., Bouneau L., Fischer C., Ozouf-Coetz C., Bernot A.,
Nicad S., Jaffe D., Fisher S., Lutfalla G., Dossat C., Segurens B.,
Dasilva C., Salanoubat M., Levy M., Boudet N., Castellano S.,
Ranhouard V., Jubin C., Castell V., Katinka M., Vacherie B.,
Biemont C., Skalli Z., Cattolico L., Poulain J., De Berardinis V.,
Cruaud C., Duprat S., Brottier P., Coutanceau J.P., Gouzy J.,
Perra G., Lardier G., Chappie C., McKernan K.J., McEwan P., Bosak S.,
Kellis M., Volff J.N., Guigo R., Zody M.C., Mesirov J.,
Ranhouard V., Jubin C., Castell V., Katinka M., Vacherie B.,
Lindblad-Toh K., Birren B., Nusbaum C., Kahn D., Robinson-Rechavi M.,
Lauder V., Schachter V., Querier F., Saurin W., Scarpelli C.,
Wincker P., Lander E.S., Weissbach J., Roest Crollius H.;
RT "Genome duplication in the teleost fish Tetraodon nigroviridis reveals
the early vertebrate proto-karyotype.";
RL Nature 431:946-957(2004).
[2]
NCLEOTIDE SEQUENCE.
RP Genoscope; Whitehead Institute Centre for Genome Research;
RG Submitted (FEB-2004) to the EMBL/GenBank/DBJ databases.
CC -1- CAUTION: The sequence shown here is derived from an
CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
CC preliminary data.
DR EMBL; CAE01010335; CAF93024.1; -; Genomic_DNA.
DR InterPro; IPR000276; GPCR_Rhodopsin.

DR Pfam; PF00001; 7cm 1; 1.
DR PRINTS; PR00237; GPCRHDOPSN.
DR PROSITE; PS50262; G PROTEIN RECP F1.2; 1.
FT G-protein coupled receptor; Receptor; Transducer; Transmembrane.
KW NON_TER
SQ SEQUENCE 328 AA; 3658 MW; 4BA0F6785EB01D4F CRC64;
Query Match 67.5%; Score 1344; DB 2; Length 328;
Best Local Similarity 68.7%; Pred. No. 7.5e-96;
Matches 257; Conservative 31; Mismatches 38; Indels 48; Gaps 4;
QY 2 ANTTGEPEEVSQALSPSPA-SAYKLVLLGLIMCVSLAGNALISLVLKERALHKAPYF 60
DB 1 ANGSSGCPAGSAATPPASAVAHVKLLIGIICVSLVGLVSLVLRDRALHKAPYF 60
QY 61 LLDLCIADGIRSAVCEPFLVSVRSGSWTFSAISCKIYAFMAVFCFHAAPMLFCISVT 120
DB 61 LLDLCIADGIRSAVCEPFLVSVRSGSWTFSAISCKIYAFMAVFCFHAAPMLFCISVT 120
QY 121 RMAIAHHRFYAKRMTLMTCAAVICAMTISVMAAPFPVDGTYKFIREDQCIFEHRY 180
DB 121 RMAIAHHRFYAKRMTLMTCAAVICAMTISVMAAPFPVDGTYKFIREDQCIFEHRY 180
QY 181 FRANDTLGFMLMLAVLMAATHAVYGLLFEYRHRMKRPVQVPAISQWTFHGPATGQ 240
DB 162 -----LLLFYKQRMKRPVQVPAISQWTFHGPATGQ 195
QY 241 AAANWYAGRGGRMPPTLLGIRONGHAASRRLLGMEVGEKOLGRMFYATLLFLLLM 300
DB 196 AAANWYAGRGGRMPPTLLGIRONGHAASRRLLGMEVGEKOLGRMFYATLLFLLLM 255
QY 301 PVIYACWYRVFYKACAVPHRYLATAVMSPQAQAVNPIYCPFLNKKLCTTHAP-CWG 359
DB 256 PVIYACWYRVFYKACAVPHRYLATAVMSPQAQAVNPIYCPFLNKKLCTTHAP-CWG 315
QY 360 TCGAPAPREPYCYM 373
DB 316 TRPHR-PQEPYRNM 328
RESULT 10
Q5U576 XENLA PRELIMINARY; PRT; 370 AA.
AC Q5U576-
DT 01-FEB-2005 (TrEMBLrel. 29, Created)
DT 01-FEB-2005 (TrEMBLrel. 29, Last sequence update)
DE LOC495345 protein.
GN Name=LOC495345;
OS Xenopus laevis (African clawed frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Mesobatrachia; Pipidoidea; Pipidae;
OC Xenopodinae; Xenopus; Xenopus.
OX NCBI_TaxID=8355;
RN (1)
RP NUCLEOTIDE SEQUENCE.
RC TISSUE=Eye;
RX MEDLINE=22341132; PubMed=12454917; DOI=10.1002/duy.10174;
RA Klein S.L., Straubeberg R.L., Wagner L., Pontius J., Clifton S.W.,
RA Richardson P.;
RT "Genetic and genomic tools for Xenopus research: The NIH Xenopus
RT initiative";
RL Dev. Dyn. 225:384-391 (2002).
RN (2)
RP NUCLEOTIDE SEQUENCE.
RC TISSUE=Eye;
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Straubeberg R.L., Pubmed=12477932; DOI=10.1073/pnas.242603899;
RA Klausner R.D., Collins F.S., Wagner L., Schemen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins J.F., Jordan H., Moore T., Max S.I., Wang J., Heide F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Schreetz T.E.,

RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loguelli N.A., Peters G.J., Abimerson R.D., Miliaty S.J.,
RA Bosak S.A., McGowan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahay U., Helton E., Kettlemen M., Madan A., Rodighiero S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butterfield Y.S.N., Krzywicki M.J., Skalska U., Smallus D.E.,
RA Scherch A., Schein J.E., Jones S.J.M., Maira M.A.,
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
RN (3)
RP NUCLEOTIDE SEQUENCE.
RC TISSUE=Eye;
RA Klein S., Gerhard D.S.;
RL Submitted (OCT-2004) to the EMBL/Genbank/DBJ databases.
CC -1- SUBCELLULAR LOCATION: Integral membrane protein (By similarity).
DR EMBL; BC084808; AAH84808.1; -; mRNA.
DR GO; GO:0016021; C:integral to membrane; IEA.
DR GO; GO:0004872; P:receptor activity; IEA.
DR GO; GO:0001584; P:rhodopsin-like receptor activity; IEA.
DR GO; GO:0007186; P:g-protein coupled receptor protein signaling; IEA.
DR GO; GO:0007165; P:signal transduction; IEA.
DR InterPro; IPR000276; GPCR_Rhodopsn.
DR Pfam; PF00001; 7cm 1; 1.
DR PRINTS; PR00237; GPCRHDOPSN.
DR PROSITE; PS50262; G PROTEIN RECP F1.2; 1.
FT G-protein coupled receptor; Receptor; Transducer; Transmembrane.
KW NON_TER
SQ SEQUENCE 370 AA; 41904 MW; 8A459AD950886FF3 CRC64;
Query Match 64.8%; Score 1291.5; DB 2; Length 370;
Best Local Similarity 62.4%; Pred. No. 9.7e-92;
Matches 234; Conservative 58; Mismatches 76; Indels 7; Gaps 4;
QY 1 MANTGEPEEVSQALSPSPA-SAYKLVLLGLIMCVSLAGNALISLVLKERALHKAPYF 60
DB 1 MANDSHADNIIQNSP--LTPFLKLTSLGPIIGSVGNLISLVLVDKTLHRAPYF 58
QY 61 LLDLCIADGIRSAVCEPFLVSVRSGSWTFSAISCKIYAFMAVFCFHAAPMLFCISVT 120
DB 59 LLDLCIADGIRSAVCEPFLVSVRSGSWTFSAISCKIYAFMAVFCFHAAPMLFCISVT 118
QY 121 RMAIAHHRFYAKRMTLMTCAAVICAMTISVMAAPFPVDGTYKFIREDQCIFEHRY 180
DB 119 RYLAIAHHRFYAKRMTLMTCAAVICAMTISVMAAPFPVDGTYKFIREDQCIFEHRY 178
QY 181 FRANDTLGFMLMLAVLMAATHAVYGLLFEYRHRMKRPVQVPAISQWTFHGPATGQ 240
DB 179 FRANDTLGFMLMLAVLMAATHAVYGLLFEYRHRMKRPVQVPAISQWTFHGPATGQ 238
QY 241 AAANWYAGRGGRMPPTLLGIRONGHAASRRLLGMEVGEKOLGRMFYATLLFLLLM 299
DB 239 AAANWYAGRGGRMPPTLLGIRONGHAASRRLLGMEVGEKOLGRMFYATLLFLLLM 298
QY 300 PVIYACWYRVFYKACAVPHRYLATAVMSPQAQAVNPIYCPFLNKKLCTTHAP-CWG 358
DB 299 GPFLACWYRVFYKACAVPHRYLATAVMSPQAQAVNPIYCPFLNKKLCTTHAP-CWG 357
QY 359 GTGAPAPREPYCYM 373
DB 358 --RKSRLPREPYCVI 370
RESULT 11
Q4RHK7 TESTING PRELIMINARY; PRT; 371 AA.
AC Q4RHK7-
DT 13-SEP-2005 (TrEMBLrel. 31, Created)
DT 13-SEP-2005 (TrEMBLrel. 31, Last sequence update)
DT 13-SEP-2005 (TrEMBLrel. 31, Last annotation update)


```
CC -1- SIMILARITY: Belongs to the G-protein coupled receptor 1 family.
CC -----
CC This Swiss-Prot entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation-
CC the European Bioinformatics Institute. There are no restrictions on its
CC use as long as its content is in no way modified and this statement is not
CC removed.
CC -----
CC EMBL: AF250237; AAF79956.1; -; mRNA.
CC EMBL: AB040800; BAA96646.1; -; mRNA.
CC EMBL: AB065688; BAC05911.1; -; Genomic_DNA.
CC EMBL: AL161949; CAB82307.1; -; mRNA.
CC EMBL: AC073346; AAC93365.1; -; Genomic_DNA.
CC PIR: T47131; T47131.
CC Ensemble: ENSG00000164604; Homo sapiens.
CC HGNC: HGNC:4536; GPR85.
CC H-InvDB: HIX0007011; -.
CC MIM: 605188; -.
CC InterPro: IPR000276; GPCR_Rhodopsin.
CC Pfam: PF00001; 7tm.1; 1.
CC PRINTS: PR00237; GPCRHHODOPSIN.
CC PROSITE: PS00237; G-PROTEIN_RECEP_F1_1; FALSE_NEG.
CC PROSITE: PS02622; G-PROTEIN_RECEP_F1_2; 1.
CC G-protein coupled receptor; Glycoprotein; Multigene family; Receptor;
CC Transducer; Transmembrane.
CC -----
CC FT TOPO_DOM 1 25 Extracellular (Potential).
CC FT 26 46 1 (Potential).
CC FT TOPO_DOM 47 57 Cytoplasmic (Potential).
CC FT TRANSMEM 58 78 2 (Potential).
CC FT TOPO_DOM 79 96 Extracellular (Potential).
CC FT TRANSMEM 97 117 3 (Potential).
CC FT TOPO_DOM 118 137 Cytoplasmic (Potential).
CC FT TRANSMEM 138 158 4 (Potential).
CC FT TOPO_DOM 159 188 Extracellular (Potential).
CC FT TRANSMEM 189 209 5 (Potential).
CC FT TOPO_DOM 210 286 Cytoplasmic (Potential).
CC FT TRANSMEM 287 307 6 (Potential).
CC FT TOPO_DOM 308 314 Extracellular (Potential).
CC FT TRANSMEM 314 334 7 (Potential).
CC FT TOPO_DOM 335 370 Cytoplasmic (Potential).
CC FT CARBOHYD 3 83 N-linked (GlcNAc...) (Potential).
CC FT CARBOHYD 83 83 N-linked (GlcNAc...) (Potential).
CC FT CARBOHYD 182 182 N-linked (GlcNAc...) (Potential).
CC FT DISULFID 94 172 By similarity.
CC SEQUENCE 370 AA: 41995 MW: 78674396166AAB CRC64;
CC -----
CC Query Match 64.7%; Score 1288.5; DB 1; Length 370;
CC Best Local Similarity 62.7%; Pred. No. 1.7e-91;
CC Matches 235; Conservative 56; Mismatches 77; Indels 7; Gaps 4;
CC -----
CC QY 1 MANTGEPREVGSCALSPSPASAVKVLGLIMCVSLAGNAILSLVLERALHKAPYF 60
CC | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
CC 1 MANSYHAPNIIQNLSP--LTAFLKLTSLGFIIGSVVGNLILVNDKTLHRAPIYF 58
CC | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
CC 61 LIDLCLADGISAVCPFLVLAIVRHGSSMTFSLASKIYAFMAVLCFHAAPFLFCISVT 120
CC | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
CC 59 LIDLCCSDILRSALICPFVFNKSNKSTWYGLTKLVAFGLVSLCFHTAFMLFCISVT 118
CC | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
CC 121 RMAIALHRRFYAKRMTLMTCAAVTCMAWTLISVMAFPEDVGTGYKFIREDQCIPEHRY 180
CC | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
CC 119 RLALAHRRFYTKRLFWTCCLAVICWMTLSVMAAPPLVDGTYSFIEEDQCTQHNS 178
CC | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
CC 181 FRANDTLGLMLLAVLMAATHAVYGLLLPEYRHRKMKFVQWPAISONWTHFGPGATQ 240
CC | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
CC 179 FRANSLIGFMLLALILATOLVYLKLIFFVHRRKMKFQFAAASQWMTFHPGASQ 238
CC | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
CC 241 AAANWAGRGGMPTTLGIRONGHAAS--RLLLGDEYKGEKQGRMYATITLIFLLM 299
CC | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
CC 239 AAANWAGRGGMPTTLGIRONGHAAS--RLLLGDEYKGEKQGRMYATITLIFLLM 298
CC | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
CC 300 SPYIVACYRVFVKACAVPHRYLATAVMNSFQAQAVNPVLCFLNLDLKKCL-TTHAPCW 358
CC | : : : : : : : : : : : : : : : : : : : : : : : : : : : :
CC 299 GYLVACYRVFVARGVNVPGFLTAIVMNSFQAQAVNPVLCFLNLDLKKCL-TTHAPCW 357
CC -----
```

```
QY 359 GTGADAPREPYCVM 373
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 358 --RKSLRPREPYCVI 370
| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
RESULT 13
GPR85 MOUSE STANDARD; PRT; 370 AA.
AC PE0894; Q9UHI6; Q9NPDI;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Probable G-protein coupled receptor 85 (Super conserved receptor
DE expressed in brain 2).
GN Name=Gpr85; Synonyms=Streb2;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridae; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP NUCLEOTIDE SEQUENCE, AND TISSUE SPECIFICITY.
RC STRAIN=CD-1; TISSUE=Fetal brain;
RX MEDLINE=20435311; PubMed=10978537; DOI=10.1016/S0167-4781(00)00182-2;
RA Hellebrand S., Schaller H.C., Wittenberger T.;
RT "The brain-specific G-protein coupled receptor GPR85 with identical
RT protein sequence in man and mouse maps to human chromosome 7q31.";
RL Biochim. Biophys. Acta 1493:269-272 (2000).
[2]
RP NUCLEOTIDE SEQUENCE (LARGE SCALE MRNA).
RC STRAIN=C57BL/6; TISSUE=Brain, and Eye;
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Klausner R.D., Collins F.S., Wagner L., Shemen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buettow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Heish F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.U., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loughlin N.A., Peters G.J., Abramson R.D., Millard S.J.,
RA Bosak S.A., McMan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahy J., Heiton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butterfield Y.S.N., Krzywinski M.J., Skalska U., Smalhus D.B.,
RA Scherch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
[3]
RP FUNCTION: Orphan receptor.
CC -1- SUBCELLULAR LOCATION: Integral membrane protein (By similarity).
CC -1- TISSUE SPECIFICITY: Exclusively expressed in brain.
CC -1- SIMILARITY: Belongs to the G-protein coupled receptor 1 family.
CC -----
CC This Swiss-Prot entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation-
CC the European Bioinformatics Institute. There are no restrictions on its
CC use as long as its content is in no way modified and this statement is not
CC removed.
CC -----
CC EMBL: AF254416; AAF79959.1; -; mRNA.
CC EMBL: BC026975; AAF26975.1; -; mRNA.
CC EMBL: BC065154; AAF65154.1; -; mRNA.
CC Ensemble: ENSMUSG00000048216; Mus musculus.
CC WGI: WGI:1927851; Gpr85.
CC GO: GO:0016021; C:integral to membrane; TAS.
CC InterPro: IPR000276; GPCR_Rhodopsin.
CC Pfam: PF00001; 7tm.1; 1.
CC PRINTS: PR00237; GPCRHHODOPSIN.
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RESULT 15
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AC Q8BEN2;
DT 01-OCT-2002 (TrEMBLrel. 22, Created)
DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DB G protein-coupled receptor 85.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae;
OC Homo.
OX NCBI_TaxID=9606;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC TISSUE=Testis;
RX MEDLINE22388257; PubMed=124779932; DOI=10.1073/pnas.242603899;
RA Struhsberg R.L., Felings E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shennan C.M., Schaller G.D.,
RA Altschul S.F., Zeeberg B., Buettow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Donald M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Uedlin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,
RA Bosak S.A., McGowan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richardson S., Morley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahy J., Helton E., Kettelman M., Madan A., Rodriques S., Sanchez A.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Buterfield V.S.N., Krzywicki M.I., Skalek U., Smalhus D.E.,
RA Scherch A., Schein J.E., Jones S.J.M., Maira W.A.,
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences."
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
RN [2]
RP NUCLEOTIDE SEQUENCE.
RC TISSUE=Testis;
RA Struhsberg R.;
RL Submitted (MAY-2002) to the EMBL/GenBank/DBJ databases.
CC -1- SUBCELLULAR LOCATION: Integral membrane protein (By similarity).
DR EMBL: BC030577; AAH30577.1; -; mRNA.
DR GO: GO:0016021; C: integral to membrane; IEA.
DR GO: GO:0004872; F: receptor activity; IEA.
DR GO: GO:0001584; F: rhodopsin-like receptor activity; IEA.
DR GO: GO:0007186; P: G-protein coupled receptor protein signaling; IEA.
DR GO: GO:0007165; P: signal transduction; IEA.
DR InterPro: IPR000276; GPCR_Rhodopsn.

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DR Pfam; PF00001; 7tm 1; 1.
DR PRINTS; PR00237; GPCR_RHODOPSIN.
DR PROSITE; PS00262; G_PROTEIN_RECEP_F1_2; 1.
KW G-protein coupled receptor; Receptor; Transducer; Transmembrane.
SQ SEQUENCE 370 AA; 41965 MW; 20DD032E716BC797 CRC64;

Query Match
Best local similarity 62.7%; Pred. No. 1,7e-91;
Matches 235; Conservative 56; Mismatches 77; Indels 7; Gaps 4;

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Search completed: March 7, 2006, 12:54:13
Job time : 235 secs

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GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

OM protein - protein search, using sw model

Run on: March 7, 2006, 12:54:30 ; Search time 46 Seconds
(without alignments)
670.392 Million cell updates/sec

Title: US-10-782-596-20

Perfect score: 1992

Sequence: 1 MANTGEPREVSALSPSPA.....HAPCMGTGAPAPRPYCV 373

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

1: Issued Patents AA:
2: /cgn2_6/prodata/1/aa/5 COMB.pep:*
3: /cgn2_6/prodata/1/aa/6 COMB.pep:*
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6: /cgn2_6/prodata/1/aa/backfillsl.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	* Match	Query Length	DB ID	Description
1	1992	100.0	373	2	US-09-875-076-20 Sequence 20, Appl
2	1986	99.7	373	2	US-09-622-439-6 Sequence 6, Appl
3	1986	99.7	373	2	US-10-318-142-6 Sequence 6, Appl
4	1975	99.1	373	2	US-09-622-439-26 Sequence 26, Appl
5	1975	99.1	373	2	US-10-318-142-26 Sequence 26, Appl
6	1288.5	64.7	370	2	US-09-251-373-2 Sequence 2, Appl
7	1288.5	64.7	370	2	US-09-622-439-4 Sequence 4, Appl
8	1288.5	64.7	370	2	US-09-622-439-24 Sequence 24, Appl
9	1288.5	64.7	370	2	US-10-318-142-4 Sequence 4, Appl
10	1288.5	64.7	370	2	US-10-318-142-24 Sequence 24, Appl
11	1288.5	64.7	370	2	US-09-875-076-26 Sequence 26, Appl
12	1031	51.8	375	2	US-09-622-439-2 Sequence 2, Appl
13	1031	51.8	375	2	US-10-318-142-2 Sequence 2, Appl
14	1031	51.8	375	2	US-09-875-076-16 Sequence 16, Appl
15	1023	51.4	377	2	US-09-622-439-12 Sequence 12, Appl
16	1023	51.4	377	2	US-10-318-142-22 Sequence 22, Appl
17	994	49.9	184	2	US-09-369-247-62 Sequence 62, Appl
18	994	49.9	184	2	US-10-062-548-62 Sequence 62, Appl
19	342	17.2	123	2	US-09-369-247-104 Sequence 104, App
20	342	17.2	123	2	US-10-082-548-104 Sequence 104, App
21	268.5	13.5	471	2	US-09-032-742-17 Sequence 17, Appl
22	264.5	13.3	471	2	US-09-032-742-11 Sequence 11, Appl
23	263.5	13.2	471	2	US-09-032-742-14 Sequence 14, Appl
24	262	13.2	471	2	US-09-170-496D-228 Sequence 228, App
25	261.5	13.1	470	2	US-09-292-071-25 Sequence 25, Appl
26	261.5	13.1	470	2	US-09-292-069A-25 Sequence 25, Appl
27	261.5	13.1	470	2	US-09-767-013-25 Sequence 25, Appl

28	261.5	13.1	470	2	US-09-292-072-25 Sequence 25, Appl
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32	259.5	13.0	471	2	US-09-032-742-2 Sequence 2, Appl
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45	257	12.9	471	1	US-08-370-542-7 Sequence 7, Appl

ALIGNMENTS

RESULT 1
US-09-875-076-20
; Sequence 20, Application US/09875076
; Patent No. 6869776
; GENERAL INFORMATION:
; APPLICANT: Chen, Kuoping
; APPLICANT: Dang, Huang T.
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lin, I-Lin
; TITLE OF INVENTION: Human Orphan G Protein Coupled Receptors
; FILE REFERENCE: ARENO050
; CURRENT APPLICATION NUMBER: US/09/875, 076
; PRIOR FILING DATE: 2001-06-06
; PRIOR APPLICATION NUMBER: 09/417, 044
; PRIOR FILING DATE: 1999-10-12
; PRIOR APPLICATION NUMBER: 60/120, 416
; PRIOR FILING DATE: 1999-02-16
; PRIOR APPLICATION NUMBER: 60/121, 851
; PRIOR FILING DATE: 1999-02-26
; PRIOR APPLICATION NUMBER: 60/123, 946
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123, 949
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/136, 436
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/136, 437
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/136, 439
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/136, 567
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; PRIOR APPLICATION NUMBER: 60/141, 448
; PRIOR FILING DATE: 1999-06-29
; PRIOR APPLICATION NUMBER: 60/156, 653
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: 60/156, 633
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: 60/156, 555
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: 60/156, 634
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: 60/157, 280
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: 60/157, 294
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; PRIOR APPLICATION NUMBER: 60/157, 281

;; PRIOR FILING DATE: 1999-10-01
;; PRIOR APPLICATION NUMBER: 60/157,293
;; PRIOR FILING DATE: 1999-10-01
;; PRIOR APPLICATION NUMBER: 60/157,282
;; PRIOR FILING DATE: 1999-10-01
;; NUMBER OF SEQ ID NOS: 74
;; SOFTWARE: Patent In Ver. 2.1
;; SEQ ID NO 20
;; LENGTH: 373
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-09-875-076-20

Query Match 100.0%; Score 1992; DB 2; Length 373;
Best Local Similarity 100.0%; Pred. No. 8,9e-171;
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RESULT 2
US-09-622-439-6
;; Sequence 6, Application US/09622439
;; Patent No. 6555344
;; GENERAL INFORMATION:
;; APPLICANT: Yamamouchi Pharmaceutical Co., Ltd.
;; TITLE OF INVENTION: A novel G protein coupled receptor protein
;; FILE REFERENCE: Y9905
;; CURRENT APPLICATION NUMBER: US/09/622,439
;; CURRENT FILING DATE: 2000-08-17
;; PRIOR APPLICATION NUMBER: JP P1998-060245
;; PRIOR FILING DATE: 1998-03-12
;; PRIOR APPLICATION NUMBER: JP P1999-026774
;; PRIOR FILING DATE: 1999-02-03
;; NUMBER OF SEQ ID NOS: 26
;; SOFTWARE: Patent In Ver. 2.0
;; SEQ ID NO 6
;; LENGTH: 373
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-09-622-439-6

Query Match 99.7%; Score 1986; DB 2; Length 373;
Best Local Similarity 99.7%; Pred. No. 3.1e-170;
Matches 372; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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DB 1 MANTTGEPEVSGALSPSPASAVYKLVLLGLIMCVSLAGNALISLVLKERALHKAAPYF 60
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QY 361 GGAPAPREPYCYW 373
DB 361 GGAPAPREPYCYW 373

RESULT 3
US-10-318-142-6
;; Sequence 6, Application US/10318142
;; Patent No. 680889
;; GENERAL INFORMATION:
;; APPLICANT: Yamamouchi Pharmaceutical Co., Ltd.
;; TITLE OF INVENTION: A novel G protein coupled receptor protein
;; FILE REFERENCE: Y9905
;; CURRENT APPLICATION NUMBER: US/10/318,142
;; CURRENT FILING DATE: 2002-12-13
;; PRIOR APPLICATION NUMBER: US/09/622,439
;; PRIOR FILING DATE: 2000-08-17
;; PRIOR APPLICATION NUMBER: JP P1998-060245
;; PRIOR FILING DATE: 1998-03-12
;; PRIOR APPLICATION NUMBER: JP P1999-026774
;; PRIOR FILING DATE: 1999-02-03
;; NUMBER OF SEQ ID NOS: 26
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US-10-318-142-6

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QY 1 MANTTGEPEVSGALSPSPASAVYKLVLLGLIMCVSLAGNALISLVLKERALHKAAPYF 60
DB 1 MANTTGEPEVSGALSPSPASAVYKLVLLGLIMCVSLAGNALISLVLKERALHKAAPYF 60
QY 61 LLDLCLADGIRSAVCFPPVLASVRHGSSWTFSSALCKIYAFMAVLFCEHAAFMLCISVT 120
DB 61 LLDLCLADGIRSAVCFPPVLASVRHGSSWTFSSALCKIYAFMAVLFCEHAAFMLCISVT 120
QY 121 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLVMAAFPPVFDVGTGTFIREDDOCIFEHRY 180
DB 121 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLVMAAFPPVFDVGTGTFIREDDOCIFEHRY 180
QY 181 FKANDTLGFMLMLAVLMAATHAVYVKLLLFYRHRKMKPVQVMPAISQWTFHGPATGQ 240
DB 181 FKANDTLGFMLMLAVLMAATHAVYVKLLLFYRHRKMKPVQVMPAISQWTFHGPATGQ 240
QY 241 AAANWTAGRGMPPTLLGIRONGHAASRRLGMDVKGKOLGMPFAITLLFLLMS 300

```
Db      241  |AAANWLAGFGRGMPPTLLGIRONGHAASRLLGMEVKEKOLGRMFVAITLLPILLMS 300
Qy      301  |PYVACYMWRFVYACAVPHRYLATAVWMSFAQAANVPYVCFLLNKDKKCLTTHAPCWGT 360
Db      301  |PYVACYMWRFVYACAVPHRYLATAVWMSFAQAANVPYVCFLLNKDKKCLTTHAPCWGT 360
Qy      361  |GGAPAREPYCWM 373
Db      361  |GGAPAREPYCWM 373
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RESULT 4

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US-09-622-439-26
; Sequence 26, Application US/09622439
; Patent No. 6555344
; GENERAL INFORMATION:
; APPLICANT: Yamaguchi Pharmaceutical Co., Ltd.
; TITLE OF INVENTION: A novel G protein coupled receptor protein
; FILE REFERENCE: Y9905
; CURRENT APPLICATION NUMBER: US/09/622,439
; PRIOR FILING DATE: 2000-08-17
; PRIOR APPLICATION NUMBER: JP P1998-060245
; PRIOR FILING DATE: 1998-03-12
; PRIOR APPLICATION NUMBER: JP P1999-026774
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 26
; LENGTH: 373
; TYPE: PRT
; ORGANISM: Rat coronavirus
US-09-622-439-26
```

```
Query Match      99.1%; Score 1975; DB 2; Length 373;
Best Local Similarity 99.2%; Pred. No. 3e-169;
Matches 370; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
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Qy      1  |MANTGEPREVSGLSPSASAYVKLVLLGLIMCVSLAGNALISLVKERALHKAOPYE 60
Db      1  |MANTGEPREVSGLSPSASAYVKLVLLGLIMCVSLAGNALISLVKERALHKAOPYE 60
Qy      61  |LIDLCLADGIRSAVCEPFVLAIVRHGSSWTFSSALCKIVAFMAVLCFHAFFMLFCISVT 120
Db      61  |LIDLCLADGIRSAVCEPFVLAIVRHGSSWTFSSALCKIVAFMAVLCFHAFFMLFCISVT 120
Qy      121  |RYMAIAHRRFYAKRMTLMTCAAVICMAWTLISVMAAPFPVVDGTYKFIREDQCIPEHRY 180
Db      121  |RYMAIAHRRFYAKRMTLMTCAAVICMAWTLISVMAAPFPVVDGTYKFIREDQCIPEHRY 180
Qy      181  |FRANDTLGFMMLAVMAATHAVYKLLLFYRHRKRPQWVPALISQWTFHGPATGQ 240
Db      181  |FRANDTLGFMMLAVMAATHAVYKLLLFYRHRKRPQWVPALISQWTFHGPATGQ 240
Qy      241  |AAANWLAGFGRGMPPTLLGIRONGHAASRLLGMEVKEKOLGRMFVAITLLPILLMS 300
Db      241  |AAANWLAGFGRGMPPTLLGIRONGHAASRLLGMEVKEKOLGRMFVAITLLPILLMS 300
Qy      301  |PYVACYMWRFVYACAVPHRYLATAVWMSFAQAANVPYVCFLLNKDKKCLTTHAPCWGT 360
Db      301  |PYVACYMWRFVYACAVPHRYLATAVWMSFAQAANVPYVCFLLNKDKKCLTTHAPCWGT 360
Qy      361  |GGAPAREPYCWM 373
Db      361  |GGAPAREPYCWM 373
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RESULT 5

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US-10-318-142-26
; Sequence 26, Application US/10318142
; Patent No. 6808899
; GENERAL INFORMATION:
; APPLICANT: Yamaguchi Pharmaceutical Co., Ltd.
```

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; TITLE OF INVENTION: A novel G protein coupled receptor protein
; FILE REFERENCE: Y9905
; CURRENT APPLICATION NUMBER: US/10/318,142
; PRIOR FILING DATE: 2002-12-13
; PRIOR APPLICATION NUMBER: US/09/622,439
; PRIOR FILING DATE: 2000-08-17
; PRIOR APPLICATION NUMBER: JP P1998-060245
; PRIOR FILING DATE: 1998-03-12
; PRIOR APPLICATION NUMBER: JP P1999-026774
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 26
; LENGTH: 373
; TYPE: PRT
; ORGANISM: Rat coronavirus
US-10-318-142-26
```

```
Query Match      99.1%; Score 1975; DB 2; Length 373;
Best Local Similarity 99.2%; Pred. No. 3e-169;
Matches 370; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
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Qy      1  |MANTGEPREVSGLSPSASAYVKLVLLGLIMCVSLAGNALISLVKERALHKAOPYE 60
Db      1  |MANTGEPREVSGLSPSASAYVKLVLLGLIMCVSLAGNALISLVKERALHKAOPYE 60
Qy      61  |LIDLCLADGIRSAVCEPFVLAIVRHGSSWTFSSALCKIVAFMAVLCFHAFFMLFCISVT 120
Db      61  |LIDLCLADGIRSAVCEPFVLAIVRHGSSWTFSSALCKIVAFMAVLCFHAFFMLFCISVT 120
Qy      121  |RYMAIAHRRFYAKRMTLMTCAAVICMAWTLISVMAAPFPVVDGTYKFIREDQCIPEHRY 180
Db      121  |RYMAIAHRRFYAKRMTLMTCAAVICMAWTLISVMAAPFPVVDGTYKFIREDQCIPEHRY 180
Qy      181  |FRANDTLGFMMLAVMAATHAVYKLLLFYRHRKRPQWVPALISQWTFHGPATGQ 240
Db      181  |FRANDTLGFMMLAVMAATHAVYKLLLFYRHRKRPQWVPALISQWTFHGPATGQ 240
Qy      241  |AAANWLAGFGRGMPPTLLGIRONGHAASRLLGMEVKEKOLGRMFVAITLLPILLMS 300
Db      241  |AAANWLAGFGRGMPPTLLGIRONGHAASRLLGMEVKEKOLGRMFVAITLLPILLMS 300
Qy      301  |PYVACYMWRFVYACAVPHRYLATAVWMSFAQAANVPYVCFLLNKDKKCLTTHAPCWGT 360
Db      301  |PYVACYMWRFVYACAVPHRYLATAVWMSFAQAANVPYVCFLLNKDKKCLTTHAPCWGT 360
Qy      361  |GGAPAREPYCWM 373
Db      361  |GGAPAREPYCWM 373
```

RESULT 6

```
US-09-251-373-2
; Sequence 2, Application US/09251373
; Patent No. 6071722
; GENERAL INFORMATION:
; APPLICANT: SHABON USMAN
; APPLICANT: ELISHOURBAGY, NABIL
; TITLE OF INVENTION: A G-PROTEIN COUPLED 7TM RECEPTOR
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESSES:
; ADDRESSER: Ratner & Prestia
; STREET: P.O. Box 980
; CITY: Valley Forge
; STATE: PA
; COUNTRY: USA
; ZIP: 19482
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
```

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/ SOFTWARE: FastSeq for Windows Version 2.0
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/251,373
/ FILING DATE: 16-FEB-1999
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 60/082,981
/ FILING DATE: 24-APR-1998
/ APPLICATION NUMBER: 60/089,639
/ FILING DATE: 17-JUN-1998
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Prestia, Paul F
/ REGISTRATION NUMBER: 23,031
/ REFERENCE/DOCKET NUMBER: GP-70432
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 610-407-0700
/ TELEFAX: 610-407-0700
/ TELEX: 846169
/ INFORMATION FOR SEQ ID NO: 2:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 370 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ US-09-251-373-2

Query Match      64.7%; Score 1288.5; DB 2; Length 370;
Best Local Similarity 62.7%; Pred. No. 1.2e-107;
Matches 235; Conservative 56; Mismatches 77; Indels 7; Gaps 4;

QY      1 MANTGPEBVSAGSPSPASAVKLVLLGLIMCVSLAGNALISLVLKERALHKAAPYF 60
        ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : |||
DB      1 MANYSHADNIIQNLSP--LTAFLKLTSLGFIIGSVGNLLISILVNDKTLHRAAPYF 58
        ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : |||

QY      61 LLDLCLADGIRSAVCFPPVLAIVRHGSSWTFSAISCKIVAFMAVLFCHFAFMLFCISVT 120
        ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : |||
DB      59 LLDLCCSDILRSALCFPPVNSVKNGSTWTYGTLCVKIAFLGVLSCFHTAFMLFCISVT 118
        ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : |||

QY      121 RYMAIAHHRFYAKRMTLWTCIAVICMAWTLVSAMAAPPVFDVGYKFIREDQCFEHR 180
        ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : |||
DB      119 RYLAIAHHRFYKRLTFWTCIAVICMWTLSVMAAPPVLDVGYTSFIREDQCTFHRS 178
        ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : |||

QY      181 FKANDTLGFMILAVMAATHAAYGKLLFEYRHRKMKPVQWNPALISQWTFHGGATGQ 240
        ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : |||
DB      179 FRANDSLGFMILALILATQLVYLKLIFFVDRRKMKEVQFAAASQWTFHGGASQ 238
        ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : |||

QY      241 AAANWLAGRGPMPTLLGIRONGHAAS--RLLGMDEVKGEKOLGRMFAITLLFLILM 299
        ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : |||
DB      239 AAANWLAGRGPTPTLLGIRONANTTGRRLVLDEFMEKRISRMFYIMTFLLFLIM 298
        ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : |||

QY      300 SPYIVACYRWVFVKAQAVHRYLATAVWMSFAQAAVNPVCFLLNDLKKCL-TTHAPCW 358
        ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : |||
DB      299 GPYLVAACYRWVFAVGRPVDFGFLTAAVWMSFAQAGINPVCFISNRELRCSTLLLYC- 357
        ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : |||

QY      359 GTGGAPAPREPYCVM 373
        : : : : :
DB      358 --RKSRLLPREPYCVI 370
        : : : : :
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/ PRIOR FILING DATE: 1999-02-03
/ NUMBER OF SEQ ID NOS: 26
/ SOFTWARE: Patent In Ver. 2.0
/ SEQ ID NO 4
/ LENGTH: 370
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ US-09-622-439-4

Query Match      64.7%; Score 1288.5; DB 2; Length 370;
Best Local Similarity 62.7%; Pred. No. 1.2e-107;
Matches 235; Conservative 56; Mismatches 77; Indels 7; Gaps 4;

QY      1 MANTGPEBVSAGSPSPASAVKLVLLGLIMCVSLAGNALISLVLKERALHKAAPYF 60
        ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : |||
DB      1 MANYSHADNIIQNLSP--LTAFLKLTSLGFIIGSVGNLLISILVNDKTLHRAAPYF 58
        ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : |||

QY      61 LLDLCLADGIRSAVCFPPVLAIVRHGSSWTFSAISCKIVAFMAVLFCHFAFMLFCISVT 120
        ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : |||
DB      59 LLDLCCSDILRSALCFPPVNSVKNGSTWTYGTLCVKIAFLGVLSCFHTAFMLFCISVT 118
        ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : |||

QY      121 RYMAIAHHRFYAKRMTLWTCIAVICMAWTLVSAMAAPPVFDVGYKFIREDQCFEHR 180
        ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : |||
DB      119 RYLAIAHHRFYKRLTFWTCIAVICMWTLSVMAAPPVLDVGYTSFIREDQCTFHRS 178
        ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : |||

QY      181 FKANDTLGFMILAVMAATHAAYGKLLFEYRHRKMKPVQWNPALISQWTFHGGATGQ 240
        ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : |||
DB      179 FRANDSLGFMILALILATQLVYLKLIFFVDRRKMKEVQFAAASQWTFHGGASQ 238
        ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : |||

QY      241 AAANWLAGRGPMPTLLGIRONGHAAS--RLLGMDEVKGEKOLGRMFAITLLFLILM 299
        ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : |||
DB      239 AAANWLAGRGPTPTLLGIRONANTTGRRLVLDEFMEKRISRMFYIMTFLLFLIM 298
        ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : |||

QY      300 SPYIVACYRWVFVKAQAVHRYLATAVWMSFAQAAVNPVCFLLNDLKKCL-TTHAPCW 358
        ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : |||
DB      299 GPYLVAACYRWVFAVGRPVDFGFLTAAVWMSFAQAGINPVCFISNRELRCSTLLLYC- 357
        ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : |||

QY      359 GTGGAPAPREPYCVM 373
        : : : : :
DB      358 --RKSRLLPREPYCVI 370
        : : : : :
```

RESULT 7
US-09-622-439-4
Sequence 4, Application US/09622439

Patent No. 655344
GENERAL INFORMATION:
APPLICANT: Yamamouchi Pharmaceutical Co., Ltd.
TITLE OF INVENTION: A novel G protein coupled receptor protein
FILE REFERENCE: Y9905
CURRENT APPLICATION NUMBER: US/09/622,439
CURRENT FILING DATE: 2000-08-17
PRIOR APPLICATION NUMBER: JP P1998-060245
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: JP P1999-026774

Db 59 LLDLCCSDILRSALICPPFVNSVKNSTWYGTCTKVIAFLGVLSCFHTAFMLFCISVT 118
121 RYALAHHRFYAKRMFLMTCAAVICAMWTLVSAMAPPPVLDVGTYSFIREEDCTQHNS 180
119 RYALAHHRFYTKRLTFWTCLAVICMWTLSVMAAPPPVLDVGTYSFIREEDCTQHNS 178
181 FRANDTLGFMMLAVMAATHAVYKLLFEYRHRMKKPVQWPAISQWTFHGPATGQ 240
179 FRANDSLGFMMLALILATOLVYLKLIFFVHRRMKKPVQFAAVSQWTFHGPASQ 238
241 AAANWLAGFGGPMPTLLGIRONGHAAS-RLLLGMDVYKGEKQGRMFYATLTLFLLM 299
239 AAANWLAGFGGPTPTLLGIRONANTGRRLLVLDDEFMKRISRMFYIMTFLTLW 298
300 SPYIVACYRVPVAKACVPHRYLATAVMMSFAQAAVNPVCFILNDLKKCL-TTHAPCW 358
299 GPVLVACYRVPVARGVPGFLTAAVMMSFAQAGINPVCFISNRELRCFSTILLYC- 357
359 GTGAPAPREPYCVM 373
358 --RKSRLPREPYCVI 370

RESULT 9

US-10-318-142-4
Sequence 4, Application US/10318142
Patent No. 6808899
GENERAL INFORMATION:
APPLICANT: Yamamouchi Pharmaceutical Co., Ltd.
TITLE OF INVENTION: A novel G protein coupled receptor protein
FILE REFERENCE: Y9905
CURRENT APPLICATION NUMBER: US/10/318,142
CURRENT FILING DATE: 2002-12-13
PRIOR APPLICATION NUMBER: US/09/622,439
PRIOR FILING DATE: 2000-08-17
PRIOR APPLICATION NUMBER: JP P1998-060245
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: JP P1999-026774
PRIOR FILING DATE: 1999-02-03
NUMBER OF SEQ ID NOS: 26
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 4
LENGTH: 370
TYPE: PRT
ORGANISM: Homo sapiens
US-10-318-142-4

Query Match 64.7%; Score 1288.5; DB 2: Length 370;

Best Local Similarity 62.7%; Pred. No. 1.2e-107; Matches 235; Conservative 56; Mismatches 77; Indels 7; Gaps 4;

QY 1 MANTTGEPEVSGALSPSPASAVYKLVLLGLIMCVSLAGNALISLLVLERALHAKPYF 60
1 MANYSHADNIIQNISP--LTAFLKLTSLGFIIGVGVNLLISLLVNDKTLHRAPYF 58
61 LDDLCLADGIRSAVCPFPPLASVRRGSSWTFSAISCKIYAFNAVLFCEFAAFMLFCISVT 120
59 LLDLCCSDILRSALICPPFVNSVKNSTWYGTCTKVIAFLGVLSCFHTAFMLFCISVT 118
121 RYALAHHRFYAKRMFLMTCAAVICAMWTLVSAMAPPPVLDVGTYSFIREEDCTQHNS 180
119 RYALAHHRFYTKRLTFWTCLAVICMWTLSVMAAPPPVLDVGTYSFIREEDCTQHNS 178
181 FRANDTLGFMMLAVMAATHAVYKLLFEYRHRMKKPVQWPAISQWTFHGPATGQ 240
179 FRANDSLGFMMLALILATOLVYLKLIFFVHRRMKKPVQFAAVSQWTFHGPASQ 238
241 AAANWLAGFGGPMPTLLGIRONGHAAS-RLLLGMDVYKGEKQGRMFYATLTLFLLM 299
239 AAANWLAGFGGPTPTLLGIRONANTGRRLLVLDDEFMKRISRMFYIMTFLTLW 298
300 SPYIVACYRVPVAKACVPHRYLATAVMMSFAQAAVNPVCFILNDLKKCL-TTHAPCW 358

Db 299 GPVLVACYRVPVARGVPGFLTAAVMMSFAQAGINPVCFISNRELRCFSTILLYC- 357
359 GTGAPAPREPYCVM 373
358 --RKSRLPREPYCVI 370

RESULT 10

US-10-318-142-24
Sequence 24, Application US/10318142
Patent No. 6808899
GENERAL INFORMATION:
APPLICANT: Yamamouchi Pharmaceutical Co., Ltd.
TITLE OF INVENTION: A novel G protein coupled receptor protein
FILE REFERENCE: Y9905
CURRENT APPLICATION NUMBER: US/10/318,142
CURRENT FILING DATE: 2002-12-13
PRIOR APPLICATION NUMBER: US/09/622,439
PRIOR FILING DATE: 2000-08-17
PRIOR APPLICATION NUMBER: JP P1998-060245
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: JP P1999-026774
NUMBER OF SEQ ID NOS: 26
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 24
LENGTH: 370
TYPE: PRT
ORGANISM: Rattus sp.
US-10-318-142-24

Query Match 64.7%; Score 1288.5; DB 2: Length 370;

Best Local Similarity 62.7%; Pred. No. 1.2e-107; Matches 235; Conservative 56; Mismatches 77; Indels 7; Gaps 4;

QY 1 MANTTGEPEVSGALSPSPASAVYKLVLLGLIMCVSLAGNALISLLVLERALHAKPYF 60
1 MANYSHADNIIQNISP--LTAFLKLTSLGFIIGVGVNLLISLLVNDKTLHRAPYF 58
61 LDDLCLADGIRSAVCPFPPLASVRRGSSWTFSAISCKIYAFNAVLFCEFAAFMLFCISVT 120
59 LLDLCCSDILRSALICPPFVNSVKNSTWYGTCTKVIAFLGVLSCFHTAFMLFCISVT 118
121 RYALAHHRFYAKRMFLMTCAAVICAMWTLVSAMAPPPVLDVGTYSFIREEDCTQHNS 180
119 RYALAHHRFYTKRLTFWTCLAVICMWTLSVMAAPPPVLDVGTYSFIREEDCTQHNS 178
181 FRANDTLGFMMLAVMAATHAVYKLLFEYRHRMKKPVQWPAISQWTFHGPATGQ 240
179 FRANDSLGFMMLALILATOLVYLKLIFFVHRRMKKPVQFAAVSQWTFHGPASQ 238
241 AAANWLAGFGGPMPTLLGIRONGHAAS-RLLLGMDVYKGEKQGRMFYATLTLFLLM 299
239 AAANWLAGFGGPTPTLLGIRONANTGRRLLVLDDEFMKRISRMFYIMTFLTLW 298
300 SPYIVACYRVPVAKACVPHRYLATAVMMSFAQAAVNPVCFILNDLKKCL-TTHAPCW 358
299 GPVLVACYRVPVARGVPGFLTAAVMMSFAQAGINPVCFISNRELRCFSTILLYC- 357
359 GTGAPAPREPYCVM 373
358 --RKSRLPREPYCVI 370

RESULT 11

US-09-875-076-26
Sequence 26, Application US/09875076
Patent No. 6869776
GENERAL INFORMATION:
APPLICANT: Chen, Ruoping
APPLICANT: Dang, Huong T.
APPLICANT: Liaw, Chen W.

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/ APPLICANT: Lin, I-Lin
/ TITLE OF INVENTION: Human Orphan G Protein Coupled Receptors
/ FILE REFERENCE: AREN0050
/ CURRENT APPLICATION NUMBER: US/09/875,076
/ CURRENT FILING DATE: 2001-06-06
/ PRIOR APPLICATION NUMBER: 09/417,044
/ PRIOR FILING DATE: 1999-10-12
/ PRIOR APPLICATION NUMBER: 60/120,416
/ PRIOR FILING DATE: 1999-02-16
/ PRIOR APPLICATION NUMBER: 60/121,851
/ PRIOR FILING DATE: 1999-02-26
/ PRIOR APPLICATION NUMBER: 60/123,946
/ PRIOR FILING DATE: 1999-03-12
/ PRIOR APPLICATION NUMBER: 60/123,949
/ PRIOR FILING DATE: 1999-03-12
/ PRIOR APPLICATION NUMBER: 60/136,436
/ PRIOR FILING DATE: 1999-05-28
/ PRIOR APPLICATION NUMBER: 60/136,437
/ PRIOR FILING DATE: 1999-05-28
/ PRIOR APPLICATION NUMBER: 60/136,439
/ PRIOR FILING DATE: 1999-05-28
/ PRIOR APPLICATION NUMBER: 60/136,567
/ PRIOR FILING DATE: 1999-05-28
/ PRIOR APPLICATION NUMBER: 60/137,127
/ PRIOR FILING DATE: 1999-05-28
/ PRIOR APPLICATION NUMBER: 60/137,131
/ PRIOR FILING DATE: 1999-05-28
/ PRIOR APPLICATION NUMBER: 60/141,448
/ PRIOR FILING DATE: 1999-06-29
/ PRIOR APPLICATION NUMBER: 60/156,653
/ PRIOR FILING DATE: 1999-09-29
/ PRIOR APPLICATION NUMBER: 60/156,633
/ PRIOR FILING DATE: 1999-09-29
/ PRIOR APPLICATION NUMBER: 60/156,555
/ PRIOR FILING DATE: 1999-09-29
/ PRIOR APPLICATION NUMBER: 60/156,634
/ PRIOR FILING DATE: 1999-09-29
/ PRIOR APPLICATION NUMBER: 60/157,280
/ PRIOR FILING DATE: 1999-10-01
/ PRIOR APPLICATION NUMBER: 60/157,294
/ PRIOR FILING DATE: 1999-10-01
/ PRIOR APPLICATION NUMBER: 60/157,281
/ PRIOR FILING DATE: 1999-10-01
/ PRIOR APPLICATION NUMBER: 60/157,293
/ PRIOR FILING DATE: 1999-10-01
/ PRIOR APPLICATION NUMBER: 60/157,282
/ PRIOR FILING DATE: 1999-10-01
/ NUMBER OF SEQ ID NOS: 74
/ SOFTWARE: Patent In Ver. 2.1
/ SEQ ID NO 26
/ LENGTH: 370
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ US-09-875-076-26

Query Match      64.7%; Score 1288.5; DB 2; Length 370;
Best Local Similarity 62.7%; Pred. No. 1.2e-107;
Matches 235; Conservative 56; Mismatches 77; Indels 7; Gaps 4;
```

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179 FRANDSLGFMILLALILATQLVYLKLFVHDKRMKPVQFVAASQNTFHGPGASQ 238
QY 241 AAANWIAFGRGPMPTLLGIRONGHAAS--RRLGMDVEYGEKQGRMFYATLLFLILW 299
DB 229 AAANWLAGRGPRPTLLGIRONGHAAS--RRLGMDVEYGEKQGRMFYATLLFLILW 298
QY 300 SPYIYACTWRYVVKACANPHRYLATAVWMSFQAQAVNPVYCLLKKDLKCL--THAPCW 358
DB 299 GPVLVACYWRYVFPARPVVPGGFLTAQVWMSFQAQAVNPVYCLLKKDLKCL--THAPCW 357
QY 359 GTGGAAPAREPYCWM 373
DB 358 --RKSLRPREPYCVI 370

RESULT 12
US-09-622-439-2
/ Sequence 2, Application US/09622439
/ Patent No. 655344
/ GENERAL INFORMATION:
/ APPLICANT: Yamanouchi Pharmaceutical Co., Ltd.
/ TITLE OF INVENTION: A novel G protein coupled receptor protein
/ FILE REFERENCE: Y9905
/ CURRENT APPLICATION NUMBER: US/09/622,439
/ PRIOR FILING DATE: 2000-08-17
/ PRIOR APPLICATION NUMBER: JP P1998-060245
/ PRIOR FILING DATE: 1998-03-12
/ PRIOR APPLICATION NUMBER: JP P1999-026774
/ PRIOR FILING DATE: 1999-02-03
/ NUMBER OF SEQ ID NOS: 26
/ SOFTWARE: Patent In Ver. 2.0
/ SEQ ID NO 2
/ LENGTH: 375
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ US-09-622-439-2

Query Match      51.8%; Score 1031; DB 2; Length 375;
Best Local Similarity 54.1%; Pred. No. 1.5e-84;
Matches 196; Conservative 62; Mismatches 92; Indels 12; Gaps 5;
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QY 1 MANTGEPREVSAGLSPPSASAVVVLGLIMCVSLAGNALISLVLKERALHKAPYYF 60
DB 1 MANAS---EPGSGGGGGAALGLKATVLSLVCVSLAGNVLPALIVERSLHRAPIYL 56
QY 61 LLDLCIADGIRSAVCEPFVYLAIVRHGSSWTF---ALSCKIVAFMAVLPCHFAAFMLFCTI 117
DB 57 LLDLCIADGIRSAVCEPFVYLAIVRHGSSWTF---ALSCKIVAFMAVLPCHFAAFMLFCTI 116
QY 118 SVTRYMAIAHRRFYAKRMTLMTCAA-VICMAVTSVMAAPPVYDVGYTKFTIREDOCF 176
DB 117 GVTRYMAIAHRRFYAKRMTLMTCAA-VICMAVTSVMAAPPVYDVGYTKFTIREDOCF 173
QY 177 EHRFYKANDTLGFMMLATVLAATAVYVYKLLLFYRHRKMKPVQVQVPAISONWTFHGP 236
DB 174 EHRFYKANDTLGFMMLATVLAATAVYVYKLLLFYRHRKMKPVQVQVPAISONWTFHGP 233
QY 237 ATGOAANWIAFGRGPMPTLLGIRONGHA--ASRRLGMDVEYGEKQGRMFYATLLFL 295
DB 234 ATGOAANWIAFGRGPMPTLLGIRONGHA--ASRRLGMDVEYGEKQGRMFYATLLFL 293
QY 296 LILMSFYIACYWRYVVKACANPHRYLATAVWMSFQAQAVNPVYCLLKKDLKCLTTTHA 355
DB 294 LILMSFYIACYWRYVVKACANPHRYLATAVWMSFQAQAVNPVYCLLKKDLKCLTTTHA 353
QY 356 PC 357
DB 354 PC 355
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RESULT 13
US-10-318-142-2
/ Sequence 2, Application US/10318142
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; Patent No. 6808899
; GENERAL INFORMATION:
; APPLICANT: Yamamouchi Pharmaceutical Co., Ltd.
; TITLE OF INVENTION: A novel G protein coupled receptor protein
; FILE REFERENCE: Y9905
; CURRENT APPLICATION NUMBER: US/10/318,142
; CURRENT FILING DATE: 2002-12-13
; PRIOR APPLICATION NUMBER: US/09/622,439
; PRIOR FILING DATE: 2000-08-17
; PRIOR APPLICATION NUMBER: JP P1998-060245
; PRIOR FILING DATE: 1998-03-12
; PRIOR APPLICATION NUMBER: JP P1999-026774
; PRIOR FILING DATE: 1999-02-03
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 375
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-318-142-2

Query Match      51.8%; Score 1031; DB 2; Length 375;
Best Local Similarity 54.1%; Pred. No. 1.5e-84;
Matches 196; Conservative 62; Mismatches 92; Indels 12; Gaps 5;

QY 1 MANTTGEPEVSGALSPPSASAVYKLVLLGLIMCVSLAGNALISLVLKERALHKAPLYF 60
DB 1 MANAS-----EPGSSGGGEAAALGLKLTATLSLLCVSLAGNVLPALLIVERSLHRAPIYL 56
QY 61 LLDLCIADGIRSAVCEPFYLVASVRHGSSWTF--ALSCIVAFMAVLPFCFHAAPMLFCT 117
DB 57 LLDLCIADGIRALACIPAWMLARBAAGAPGALGCTLAFLAALCFHAAPFLILGV 116
QY 118 SYTRYMAIAHRRYARAKMTLMTCAA-VICMAWLSVAMAPPPYVDVGTYKFIREDQCIF 176
DB 117 GYTRYIAIAHRRYARERLAGWPCAMLVCAAMALALAAFPVPLDGGDD--EDAPCAL 173
QY 177 HRRYFANDTLGFMMLAVLMAATHAVYGLLFEYRHRMRKQVQWPAISQMTFHGPG 236
DB 174 EQRPDGPALGFLILLAVVVGATHLVYLRLLFFHIDRRKMRARLVPAVSHMTFHGPG 233
QY 237 ATGQAANMIAGRGSPMPPTLLIGIRONGHA-ASRRLGMDVEYGEKOLGRMFYATTLTF 295
DB 234 ATGQAANMTAGRGSPPTPALVGIIRPAGRGARLLVLEBKTEKRLCKMFYATTLTF 293
QY 296 LLMSPIYIACVWRVVKACAVPHRYLATAVMMSFQAANVPVYVCTLNDKCKLCTTTHA 355
DB 294 LLIMGYVVAASYLRVLVRPGAVPQAVLTASVWLTFQAAGINPVVCFLEFNEIRDCCRAOF 353
QY 356 PC 357
DB 354 PC 355

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RESULT 14
US-09-875-076-16
Sequence 16, Application US/09875076

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; Patent No. 6869776
; GENERAL INFORMATION:
; APPLICANT: Chen, Huoping
; APPLICANT: Dang, Huong T.
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lin, I-Lin
; TITLE OF INVENTION: Human Orphan G Protein Coupled Receptors
; FILE REFERENCE: AREN0050
; CURRENT APPLICATION NUMBER: US/09/875,076
; CURRENT FILING DATE: 2001-06-06
; PRIOR APPLICATION NUMBER: 09/417,044
; PRIOR FILING DATE: 1999-10-12
; PRIOR APPLICATION NUMBER: 60/120,416
; PRIOR FILING DATE: 1999-02-16
; PRIOR APPLICATION NUMBER: 60/121,851
; PRIOR FILING DATE: 1999-02-26

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; PRIOR APPLICATION NUMBER: 60/123,946
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123,949
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/136,436
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/136,437
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/136,439
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/136,567
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/137,127
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/137,131
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/141,448
; PRIOR FILING DATE: 1999-06-29
; PRIOR APPLICATION NUMBER: 60/156,653
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: 60/156,633
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: 60/156,555
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: 60/156,634
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: 60/157,280
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: 60/157,294
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: 60/157,281
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: 60/157,293
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: 60/157,282
; PRIOR FILING DATE: 1999-10-01
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 375
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-875-076-16

Query Match      51.8%; Score 1031; DB 2; Length 375;
Best Local Similarity 54.1%; Pred. No. 1.5e-84;
Matches 196; Conservative 62; Mismatches 92; Indels 12; Gaps 5;

QY 1 MANTTGEPEVSGALSPPSASAVYKLVLLGLIMCVSLAGNALISLVLKERALHKAPLYF 60
DB 1 MANAS-----EPGSSGGGEAAALGLKLTATLSLLCVSLAGNVLPALLIVERSLHRAPIYL 56
QY 61 LLDLCIADGIRSAVCEPFYLVASVRHGSSWTF--ALSCIVAFMAVLPFCFHAAPMLFCT 117
DB 57 LLDLCIADGIRALACIPAWMLARBAAGAPGALGCTLAFLAALCFHAAPFLILGV 116
QY 118 SYTRYMAIAHRRYARAKMTLMTCAA-VICMAWLSVAMAPPPYVDVGTYKFIREDQCIF 176
DB 117 GYTRYIAIAHRRYARERLAGWPCAMLVCAAMALALAAFPVPLDGGDD--EDAPCAL 173
QY 177 HRRYFANDTLGFMMLAVLMAATHAVYGLLFEYRHRMRKQVQWPAISQMTFHGPG 236
DB 174 EQRPDGPALGFLILLAVVVGATHLVYLRLLFFHIDRRKMRARLVPAVSHMTFHGPG 233
QY 237 ATGQAANMIAGRGSPMPPTLLIGIRONGHA-ASRRLGMDVEYGEKOLGRMFYATTLTF 295
DB 234 ATGQAANMTAGRGSPPTPALVGIIRPAGRGARLLVLEBKTEKRLCKMFYATTLTF 293
QY 296 LLMSPIYIACVWRVVKACAVPHRYLATAVMMSFQAANVPVYVCTLNDKCKLCTTTHA 355
DB 294 LLIMGYVVAASYLRVLVRPGAVPQAVLTASVWLTFQAAGINPVVCFLEFNEIRDCCRAOF 353
QY 356 PC 357

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OM protein - protein search, using sw model

Run on: March 7, 2006, 12:46:54 ; Search time 185 Seconds
(without alignments)
885.883 Million cell updates/sec

Title: US-10-782-596-20

Perfect score: 1992
Sequence: 1 MANTGPEPEVVGALSPSPA.....HAPCWGTGAPAPRPYCVM 373

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2443163 seqs, 439378781 residues

Total number of hits satisfying chosen parameters: 2443163

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 100%

Listing first 45 summaries

Database :

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2: geneeqp19908:*
3: geneeqp20008:*
4: geneeqp20018:*
5: geneeqp20028:*
6: geneeqp20038:*
7: geneeqp20038:*
8: geneeqp20048:*
9: geneeqp20058:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1992	100.0	373	3 AAB02834	Aab02834 Human G p
2	1992	100.0	373	3 AAY71300	Aay71300 Human orp
3	1992	100.0	373	6 AB092268	Abu92268 Human G p
4	1992	100.0	373	7 ADG98766	Adg98766 Human orp
5	1992	100.0	373	7 ADJ76929	Adj76929 Human end
6	1992	100.0	373	8 ADG68383	Adg68383 Human end
7	1992	100.0	373	8 ADP20176	Adp20176 Human G p
8	1992	100.0	373	8 ADQ75080	Adq75080 Human G p
9	1992	99.7	373	2 AAY30534	Aay30534 A G prote
10	1992	99.7	373	4 AAY97747	Aay97747 Human Mon
11	1992	99.7	373	6 ABP81720	Abp81720 Human Sre
12	1992	99.7	373	8 ADG12836	Adg12836 Human wil
13	1992	99.7	373	8 ADQ29142	Adq29142 Human nov
14	1992	99.7	373	9 AEB87475	Aeb87475 G prote
15	1992	99.7	378	4 AAM99953	Aam99953 Human exp
16	1992	99.7	387	8 ADG12838	Adg12838 Human HA
17	1992	99.7	611	7 ADP70426	Adp70426 Orphan re
18	1992	99.6	373	8 ADG65524	Adg65524 Human end
19	1992	99.6	373	8 ADQ75135	Adq75135 Human G p
20	1992	99.2	373	3 AAY32237	Aay32237 Human 7TM
21	1992	99.1	373	8 AAY30538	Aay30538 A G prote
22	1992	99.0	373	8 ADQ29143	Adq29143 Mouse nov
23	1992	99.0	373	3 AAY99715	Aay99715 Human G-p
24	1992	99.0	373	7 ADC77647	Adc77647 Human 122

25	1973	99.0	373	8 ADH68272	Adh68272 Human G-p
26	1893	95.0	388	8 ADG12840	Adg12840 Human hsr
27	1893	95.0	388	8 ADQ28774	Adq28774 Human SRE
28	1893	95.0	388	9 ADX44593	Adx44593 Enhanced
29	1893	95.0	388	9 ADY83823	Ady83823 hSRB3-en
30	1893	95.0	402	8 ADG12842	Adg12842 HA tagged
31	1386	69.6	284	4 AAM99947	Aam99947 Human exp
32	1288.5	64.7	370	2 AAY30537	Aay30537 A G prote
33	1288.5	64.7	370	3 AAY30533	Aay30533 A G prote
34	1288.5	64.7	370	3 AAY54323	Aay54323 A G-prote
35	1288.5	64.7	370	3 AAY85145	Aay85145 Amino act
36	1288.5	64.7	370	3 AAB02837	Aab02837 Human G p
37	1288.5	64.7	370	3 AAY71303	Aay71303 Human orp
38	1288.5	64.7	370	4 AAE02497	Aae02497 Human CON
39	1288.5	64.7	370	4 AAB73558	Aab73558 Human GP2
40	1288.5	64.7	370	6 ABU08987	Abu08987 Human orp
41	1288.5	64.7	370	6 ABP92271	Abp92271 Human G p
42	1288.5	64.7	370	6 ABP81718	Abp81718 Human G p
43	1288.5	64.7	370	6 ABU09898	Abu09898 Human G-p
44	1288.5	64.7	370	7 ADC86433	Adc86433 Human GPC
45	1288.5	64.7	370	7 ADG98772	Adg98772 Human orp

ALIGNMENTS

RESULT 1	
AAB02834	
ID	AAB02834 standard; protein, 373 AA.
AC	AAB02834;
XX	
DT	22-AUG-2000 (first entry)
XX	
DE	Human G protein coupled receptor hARR-2 protein SEQ ID NO:22.
XX	
KW	Human; G protein coupled receptor; GPCR; transmembrane receptor; identification; agonist; screening; therapeutic; pharmaceutical; mutant.
OS	Homo sapiens.
PN	W0200022131-A2.
XX	
PD	20-APR-2000.
XX	
PF	13-OCT-1999; 99WO-US024065.
XX	
PR	13-OCT-1998; 98US-00170496.
PR	12-NOV-1998; 98US-0108029P.
PR	20-NOV-1998; 98US-0109213P.
PR	27-NOV-1998; 98US-0110060P.
PR	16-FEB-1999; 99US-0120416P.
PR	26-FEB-1999; 99US-0121852P.
PR	12-MAR-1999; 99US-0123944P.
PR	12-MAR-1999; 99US-0123945P.
PR	12-MAR-1999; 99US-0123946P.
PR	12-MAR-1999; 99US-0123948P.
PR	12-MAR-1999; 99US-0123949P.
PR	12-MAR-1999; 99US-0123951P.
PR	28-MAY-1999; 99US-0136436P.
PR	28-MAY-1999; 99US-0136437P.
PR	28-MAY-1999; 99US-0136439P.
PR	28-MAY-1999; 99US-0137127P.
PR	28-MAY-1999; 99US-0137131P.
PR	28-MAY-1999; 99US-0137567P.
PR	29-JUN-1999; 99US-0141448P.
PR	27-AUG-1999; 99US-0151114P.
PR	03-SEP-1999; 99US-0152524P.
PR	29-SEP-1999; 99US-0156555P.
PR	29-SEP-1999; 99US-0156633P.
PR	29-SEP-1999; 99US-0156634P.
PR	29-SEP-1999; 99US-0156653P.
PR	01-OCT-1999; 99US-0157280P.

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PR 01-OCT-1999; 99US-0157281P.
PR 01-OCT-1999; 99US-0157282P.
PR 01-OCT-1999; 99US-0157293P.
PR 01-OCT-1999; 99US-0157294P.
PR 12-OCT-1999; 99US-00416760.
PR 12-OCT-1999; 99US-00417044.
XX
XX (AREN-) ARENA PHARM INC.
XX
XX Behan DE, Lehmann-Brunema K, Chalmers DT, Chen R, Dang HT;
XX Gore M, Liaw CW, Lin I, Lowitz K, White C;
XX N-PSDB; AAA46028.
XX
XX WPI; 2000-317986/27.
XX
XX Non-endogenous, human G protein-coupled receptors for screening receptor,
XX inverse or partial agonists useful as therapeutic agents.
XX
XX Example 1; Page 97-98; 187pp; English.
XX
XX The present invention describes transmembrane receptors, preferably human
XX G protein coupled receptors (GPCR), for which the endogenous ligand is
XX unknown (orphan GPCR receptors). More specifically the present invention
XX relates to non-endogenous, constitutively activated versions of a human
XX GPCR. These non-endogenous human GPCRs can be useful for the direct
XX identification of candidate compounds as receptors agonists, inverse
XX agonists or partial agonists for use as pharmaceutical agents. AAA46017
XX to AAA46126 and AAB02825 to AAB02859 represent sequences used in the
XX exemplification of the present invention
XX
XX Sequence 373 AA;
SQ
* Query Match 100.0%; Score 1992; DB 3; Length 373;
Best Local Similarity 100.0%; Pred. No. 6,1e-218;
Matches 373; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MANTTGEPEVSGALSPSPASAYVKLVLLGLIMCVSLAGNALISLIVLKERALHKAPYF 60
DB 1 MANTTGEPEVSGALSPSPASAYVKLVLLGLIMCVSLAGNALISLIVLKERALHKAPYF 60
QY 61 LLDLCLADGIRAVNCPFFVLASVRHSSMTFSLSCKTYAFMAVLECFHAEMLCISVT 120
DB 61 LLDLCLADGIRAVNCPFFVLASVRHSSMTFSLSCKTYAFMAVLECFHAEMLCISVT 120
QY 121 RYMAIHHRFYAKRMILMTCAAVICMAWTLISVMAPEPPFVDTGYTFIEEDQCIEHHY 180
DB 121 RYMAIHHRFYAKRMILMTCAAVICMAWTLISVMAPEPPFVDTGYTFIEEDQCIEHHY 180
QY 181 FKANDTLGEMLMALVMAATHAVYGLLLFEYRHRKRPQVMPAISQWTFHGPATGQ 240
DB 181 FKANDTLGEMLMALVMAATHAVYGLLLFEYRHRKRPQVMPAISQWTFHGPATGQ 240
QY 241 AAANMTAGRGGRMPPTLLGIRONGHAASRLLGMEVYGEKLGMPFAITLLFLLMS 300
DB 241 AAANMTAGRGGRMPPTLLGIRONGHAASRLLGMEVYGEKLGMPFAITLLFLLMS 300
QY 301 PYVACWYRFYKACVPHRYLATAVWMSPAQAAVNPVCFLLNKDLKCLTTHACWGT 360
DB 301 PYVACWYRFYKACVPHRYLATAVWMSPAQAAVNPVCFLLNKDLKCLTTHACWGT 360
QY 361 GGAPAREPYCWM 373
DB 361 GGAPAREPYCWM 373

RESULT 2
AA71300
ID AAY71300 standard; protein; 373 AA.
XX
XX AAY71300;
AC
XX
XX 02-NOV-2000 (first entry)
DT
XX
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DE Human orphan G protein-coupled receptor hARE-2.
XX
XX Human; orphan G protein-coupled receptor; GPCR; hARE-2; drug screening;
XX Transmembrane receptor; expressed sequence tag; EST; signal cascade.
XX
XX Homo sapiens.
XX
XX WO200031258-A2.
XX
XX 02-JUN-2000.
XX
XX 13-OCT-1999; 99WO-US023687.
XX
XX 20-NOV-1998; 99US-0109212P.
XX 16-FEB-1999; 99US-0120416P.
XX 26-FEB-1999; 99US-0121852P.
XX 12-MAR-1999; 99US-0123946P.
XX 12-MAR-1999; 99US-0123949P.
XX 28-MAY-1999; 99US-0136436P.
XX 28-MAY-1999; 99US-0136437P.
XX 28-MAY-1999; 99US-0136439P.
XX 28-MAY-1999; 99US-0136567P.
XX 28-MAY-1999; 99US-0137127P.
XX 28-MAY-1999; 99US-0137131P.
XX 29-JUN-1999; 99US-0141448P.
XX 29-JUN-1999; 99US-0156555P.
XX 29-SEP-1999; 99US-0156633P.
XX 29-SEP-1999; 99US-0156634P.
XX 29-SEP-1999; 99US-0156653P.
XX 01-OCT-1999; 99US-0157280P.
XX 01-OCT-1999; 99US-0157281P.
XX 01-OCT-1999; 99US-0157282P.
XX 01-OCT-1999; 99US-0157293P.
XX 01-OCT-1999; 99US-0157294P.
XX 12-OCT-1999; 99US-00416760.
XX 12-OCT-1999; 99US-00417044.
XX
XX (AREN-) ARENA PHARM INC.
XX
XX Chen R, Dang HT, Liaw CW, Lin I;
XX
XX WPI; 2000-400068/34.
XX N-PSDB; AAD01127.
XX
XX Novel human orphan G protein-coupled receptors and the encoding cDNAs for
XX use in the identification of G protein-coupled receptor agonists.
XX
XX Claim 38; Page 67-68; 102pp; English.
XX
XX The present amino acid sequence is the hARE-2, an endogenous human orphan
XX G protein-coupled receptor (GPCR), expressed in the left and right
XX cerebellum. The hARE-2 cDNA was identified using ESTs (expressed sequence
XX tag) A1090920 and 68530 as a probe. The orphan GPCR of the invention,
XX like all GPCRs has seven transmembrane alpha helices with an
XX extracellular N-terminus and an intracellular C-terminus. However, no
XX endogenous ligands has yet been identified for the proteins of the
XX invention. The orphan GPCRs may be used in the identification of their
XX endogenous ligands, and to screen potential GPCR agonists and antagonists
XX for use as pharmaceutical agents. The proteins may also be used in the
XX study of GPCR-mediated signaling cascades, and to elucidate their
XX precise role in normal and diseased human conditions. Nucleic acid
XX encoding human orphan GPCRs may be used for tissue localization
XX expression analysis to provide information about their function in
XX healthy and pathological states
XX
XX Sequence 373 AA;
SQ
* Query Match 100.0%; Score 1992; DB 3; Length 373;
Best Local Similarity 100.0%; Pred. No. 6,1e-218;
Matches 373; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MANTTGEPEVSGALSPSPASAYVKLVLLGLIMCVSLAGNALISLIVLKERALHKAPYF 60
DB 1 MANTTGEPEVSGALSPSPASAYVKLVLLGLIMCVSLAGNALISLIVLKERALHKAPYF 60
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Db      1  MANTGEBEVEGSLSPSASAYVKLVLLGLIMCVSLAGNAIISLVKERALHKAPYF 60
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Db      61  LLDLCIADGIRSAVCEPFVLASVRHGSSWTFSAISCKIYAFMAVLFCEFAAFMLFCISVT 120
Qy      121  RYMAIAHHRFYAKRMTLMTCAAVI CMAWTLISVMAAPPVDPVGTGYKFIREDQCIFEHR 180
Db      121  RYMAIAHHRFYAKRMTLMTCAAVI CMAWTLISVMAAPPVDPVGTGYKFIREDQCIFEHR 180
Qy      181  FKANDTLGFMMLAVMAATHAVYKLLFEYHRHRKPKPQMPALISQNTTFHGPATGQ 240
Db      181  FKANDTLGFMMLAVMAATHAVYKLLFEYHRHRKPKPQMPALISQNTTFHGPATGQ 240
Qy      241  AAANWLAGFGRGMPPTLLGIRONGHAAARRLLGMDEVKGEKOLGMFYAITLLFLLIMS 300
Db      241  AAANWLAGFGRGMPPTLLGIRONGHAAARRLLGMDEVKGEKOLGMFYAITLLFLLIMS 300
Qy      301  PYIVACYWRFVYKACAVPHRYLATVWMSFAQAAVNPVIFCLINKDKKCLTTTHAPCWGT 360
Db      301  PYIVACYWRFVYKACAVPHRYLATVWMSFAQAAVNPVIFCLINKDKKCLTTTHAPCWGT 360
Qy      361  GGAPAREPYCVM 373
Db      361  GGAPAREPYCVM 373

RESULT 3
ABU92268 standard; protein; 373 AA.
ID  ABU92268
XX
AC  ABU92268;
XX
DT  16-JUL-2003 (first entry)
XX
XX  Human G protein-coupled receptor hARE-2.
XX
XX  Human; orphan G protein-coupled receptor; GPCR; hARE-3; hARE-4;
XX  hARE-5; hRUP3; hRUP5; hRUP6; hRUP7; hGPCR27; hARE-1; hARE-2; hPR1; hG2A;
XX  hCHN3; hCHN4; hCHN6; hCHN8; hCHN9; hCHN10; hRUP4; signalling cascade.
XX
XX  Homo sapiens.
XX
XX  US2003017528-A1.
XX
XX  23-JUN-2003.
XX
XX  06-JUN-2001; 2001US-00875076.
XX
XX  20-NOV-1998; 98US-0109213P.
XX  16-FEB-1999; 99US-0120416P.
XX  26-FEB-1999; 99US-0121852P.
XX  12-MAR-1999; 99US-0123946P.
XX  28-MAY-1999; 99US-0136436P.
XX  28-MAY-1999; 99US-0136437P.
XX  28-MAY-1999; 99US-0136439P.
XX  28-MAY-1999; 99US-0136567P.
XX  28-MAY-1999; 99US-0137127P.
XX  28-MAY-1999; 99US-0137313P.
XX  29-JUN-1999; 99US-0141448P.
XX  28-SEP-1999; 99US-0156333P.
XX  29-SEP-1999; 99US-0156555P.
XX  29-SEP-1999; 99US-0156549P.
XX  12-OCT-1999; 99US-00417044.
XX
XX  (CHEN/) CHEN R.
XX  (DANG/) DANG H T.
XX  (LIAM/) LIAM C W.
XX  (LINI/) LIN I.
XX
XX  Chen R, Dang HT, Liaw CW, Lin I,
XX

```

```

DR      WPI, 2003-428952/40.
XX      N-PSDB; ACA93265.
XX
XX  Novel endogenous, orphan, human G protein-coupled receptors useful for
PT  identification of modulators of the receptor and as research tools for
PT  understanding the role of the receptor in human body.
XX
XX  Claim 38; Page 27-28; 54pp; English.
XX
XX  The invention relates to a human G protein-coupled receptor (GPCR)
CC  appearing as ABU92259-ABU92277 (encoded by cDNAs ACA93256-ACA93274) named
CC  hARE-3, hARE-4, hARE-5, hRUP3, hRUP5, hRUP6, hRUP7, hGPCR27, hARE-1, hARE
CC  -2, hPR1, hG2A, hCHN3, hCHN4, hCHN6, hCHN8, hCHN9, hCHN10 and hRUP4.
CC  Also included are a plasmid comprising a vector and one of the cDNAs
CC  above and a host cell comprising the plasmid. The GPCRs are useful for
CC  the direct identification of candidate compounds as inverse agonists,
CC  agonists or partial agonists. In vitro and in vivo systems incorporating
CC  GPCRs is useful for elucidating and understanding the roles these
CC  receptors play in the human condition, both normal and diseased, as well
CC  as understanding the role of constitutive activation as it applies to
CC  understanding the signalling cascade. The cDNAs are useful for making a
CC  probe for dot-blot analysis against tissue mRNA and/or RT-PCR.
CC  Identification of the expression of the receptor in tissue samples. The
CC  present sequence represents a GPCR of the invention
XX
XX  SQ
XX
XX  Query Match      100.0%; Score 1992; DB 6; Length 373;
XX  Best Local Similarity 100.0%; Pred. No. 6; 1e-216;
XX  Matches 373; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
Qy      1  MANTGEBEVEGSLSPSASAYVKLVLLGLIMCVSLAGNAIISLVKERALHKAPYF 60
Db      1  MANTGEBEVEGSLSPSASAYVKLVLLGLIMCVSLAGNAIISLVKERALHKAPYF 60
Qy      61  LLDLCIADGIRSAVCEPFVLASVRHGSSWTFSAISCKIYAFMAVLFCEFAAFMLFCISVT 120
Db      61  LLDLCIADGIRSAVCEPFVLASVRHGSSWTFSAISCKIYAFMAVLFCEFAAFMLFCISVT 120
Qy      121  RYMAIAHHRFYAKRMTLMTCAAVI CMAWTLISVMAAPPVDPVGTGYKFIREDQCIFEHR 180
Db      121  RYMAIAHHRFYAKRMTLMTCAAVI CMAWTLISVMAAPPVDPVGTGYKFIREDQCIFEHR 180
Qy      181  FKANDTLGFMMLAVMAATHAVYKLLFEYHRHRKPKPQMPALISQNTTFHGPATGQ 240
Db      181  FKANDTLGFMMLAVMAATHAVYKLLFEYHRHRKPKPQMPALISQNTTFHGPATGQ 240
Qy      241  AAANWLAGFGRGMPPTLLGIRONGHAAARRLLGMDEVKGEKOLGMFYAITLLFLLIMS 300
Db      241  AAANWLAGFGRGMPPTLLGIRONGHAAARRLLGMDEVKGEKOLGMFYAITLLFLLIMS 300
Qy      301  PYIVACYWRFVYKACAVPHRYLATVWMSFAQAAVNPVIFCLINKDKKCLTTTHAPCWGT 360
Db      301  PYIVACYWRFVYKACAVPHRYLATVWMSFAQAAVNPVIFCLINKDKKCLTTTHAPCWGT 360
Qy      361  GGAPAREPYCVM 373
Db      361  GGAPAREPYCVM 373

RESULT 4
ADG98766 standard; protein; 373 AA.
ID  ADG98766
XX
AC  ADG98766;
XX
DT  11-MAR-2004 (first entry)
XX
XX  Human orphan GPCR protein, ARE-2.
XX
XX  Human; G protein-coupled receptor; GPCR; research tool; receptor.
XX
XX  Homo sapiens.
XX

```

```
XX US2003148450-A1.
PN
XX
XX 07-AUG-2003.
PD
XX
XX 17-OCT-2002; 2002US-00272983.
PF
XX
XX 20-NOV-1998; 98US-0109213P.
PR
XX 16-FEB-1999; 99US-0120416P.
PR
XX 26-FEB-1999; 99US-0121852P.
PR
XX 12-MAR-1999; 99US-0123946P.
PR
XX 12-MAR-1999; 99US-0123949P.
PR
XX 28-MAY-1999; 99US-0136436P.
PR
XX 28-MAY-1999; 99US-0136437P.
PR
XX 28-MAY-1999; 99US-0136439P.
PR
XX 28-MAY-1999; 99US-0136567P.
PR
XX 28-MAY-1999; 99US-0137127P.
PR
XX 28-MAY-1999; 99US-0137131P.
PR
XX 29-JUN-1999; 99US-014148P.
PR
XX 28-SEP-1999; 99US-0156333P.
PR
XX 29-SEP-1999; 99US-0156555P.
PR
XX 29-SEP-1999; 99US-0156634P.
PR
XX 12-OCT-1999; 99US-00417044.
XX
XX (CHEN/) CHEN R.
PA (DANG/) DANG H T.
*PA (LIAM/) LIAM C W.
XX (LINI/) LIN I.
XX
XX Chen R, Dang HT, Liam CW, Lin I;
PI
XX
XX MPI: 2003-897571/82.
DR N-PSDB; ADG98765.
XX
XX New cDNA encoding a human G protein coupled receptor, useful for making a
PT probe for dot-blot analysis against tissue-mRNA, and/or for RT-PCR
PT identification of the expression of the receptor in tissue samples.
XX
XX Claim 38; SEQ ID NO 20; 52pp; English.
XX
XX The present invention provides novel human G protein-coupled receptor
XX (GPCR) proteins and their encoding nucleic acids. The invention is useful
XX for making a probe for dot-blot analysis and for RT-PCR identification of
XX the expression of the receptor in tissue samples. The invention is also
XX useful for identifying candidate compounds as inverse agonists, agonists
XX or partial agonists and as research tools in determining the location of
XX the receptors within the body. The present sequence is human orphan G
XX protein-coupled receptor protein.
XX
XX Sequence 373 AA;
SQ
Query Match 100.0%; Score 1992; DB 7; Length 373;
Best Local Similarity 100.0%; Pred. No. 6,1e-218;
Matches 373; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MAATTGEPREVSAGLSPPSASAYVKVLGLIMCVSIAGAILSLVLEKRALHKAPYR 60
DB 1 MAATTGEPREVSAGLSPPSASAYVKVLGLIMCVSIAGAILSLVLEKRALHKAPYR 60
QY 61 LLDLCIADGIRSAVCFPEVLASVRHGSSWTFSAISCKIVAFMAVLFCHFAFMFCISVT 120
DB 61 LLDLCIADGIRSAVCFPEVLASVRHGSSWTFSAISCKIVAFMAVLFCHFAFMFCISVT 120
QY 121 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLISVAMAFPPVDVGTYKFIREDDCIFEHRY 180
DB 121 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLISVAMAFPPVDVGTYKFIREDDCIFEHRY 180
QY 181 FKANDTIGFMLNLAIVMAATHAVYKLLFEYRHRKKPVOM/PATSONMTFHPGATGQ 240
DB 181 FKANDTIGFMLNLAIVMAATHAVYKLLFEYRHRKKPVOM/PATSONMTFHPGATGQ 240
QY 241 AAANWTAGFGRGPMPTLLGIRONGHAASRLLGMDEVKGEKOLGRMFYAITLLFLLMS 300
DB 241 AAANWTAGFGRGPMPTLLGIRONGHAASRLLGMDEVKGEKOLGRMFYAITLLFLLMS 300
```

```
DB 241 AAANWTAGFGRGPMPTLLGIRONGHAASRLLGMDEVKGEKOLGRMFYAITLLFLLMS 300
QY 301 PYIVACYRWFVKACAVPHRYLATVWMSFAQAAVNPVFCFLINDLKCLTTTHAPCWGT 360
DB 301 PYIVACYRWFVKACAVPHRYLATVWMSFAQAAVNPVFCFLINDLKCLTTTHAPCWGT 360
QY 361 GGAPAPREPYCVM 373
DB 361 GGAPAPREPYCVM 373
RESULT 5
ADJ26929
ID ADJ26929 standard; protein; 373 AA.
XX
XX ADJ26929;
AC
XX 20-MAY-2004 (first entry)
DT
XX
XX Human endogenous orphan G-protein coupled receptor ARB-2 protein.
DE
XX
XX Human; G protein-coupled receptor; GPCR; dot-blot analysis;
KW pharmaceutical agent; receptor.
XX
XX Homo sapiens.
OS
XX
XX US2003175891-A1.
PN
XX
XX 18-SEP-2003.
PD
XX
XX 21-MAR-2003; 2003US-00393807.
PF
XX
XX 20-NOV-1998; 98US-0109213P.
PR
XX 16-FEB-1999; 99US-0120416P.
PR
XX 26-FEB-1999; 99US-0121852P.
PR
XX 12-MAR-1999; 99US-0123946P.
PR
XX 12-MAR-1999; 99US-0123949P.
PR
XX 28-MAY-1999; 99US-0136436P.
PR
XX 28-MAY-1999; 99US-0136437P.
PR
XX 28-MAY-1999; 99US-0136439P.
PR
XX 28-MAY-1999; 99US-0136567P.
PR
XX 28-MAY-1999; 99US-0137127P.
PR
XX 28-MAY-1999; 99US-0137131P.
PR
XX 29-JUN-1999; 99US-014148P.
PR
XX 28-SEP-1999; 99US-0156333P.
PR
XX 29-SEP-1999; 99US-0156555P.
PR
XX 29-SEP-1999; 99US-0156634P.
PR
XX 29-SEP-1999; 99US-0156637P.
PR
XX 01-OCT-1999; 99US-0157280P.
PR
XX 01-OCT-1999; 99US-0157281P.
PR
XX 01-OCT-1999; 99US-0157282P.
PR
XX 01-OCT-1999; 99US-0157293P.
PR
XX 01-OCT-1999; 99US-0157294P.
PR
XX 12-OCT-1999; 99US-00417044.
PR
XX 17-OCT-2002; 2002US-00272983.
XX
XX (CHEN/) CHEN R.
PA (DANG/) DANG H T.
*PA (LIAM/) LIAM C W.
XX (LINI/) LIN I.
XX
XX Chen R, Dang HT, Liam CW, Lin I;
PI
XX
XX MPI: 2003-898539/82.
DR N-PSDB; ADJ26928.
XX
XX New human G protein-coupled receptor and its coding cDNA, useful for
PT disease or disorder identification and/or selection, for screening of
PT candidate compounds useful as pharmaceutical agents, and in research
PT applications.
XX
XX Claim 38; SEQ ID NO 20; 53pp; English.
PS
XX
```

CC The present invention relates to human endogenous orphan G protein-coupled receptor (GPCR) proteins and polynucleotides encoding such proteins. The cDNA sequence of the human G protein-coupled receptor (GPCR) is useful in making a probe for dot-blot analysis against tissue-mRNA and/or for RT-PCR identification of the expression of the receptor in tissue samples. GPCR sequences of the invention may be used in disease/disorder identification and/or selection, in screening of CC candidate compounds for use as pharmaceutical agents and in research settings. The present sequence is human endogenous orphan GPCR protein.

XX Sequence 373 AA;

Query Match 100.0%; Score 1992; DB 7; Length 373;
Best Local Similarity 100.0%; Pred. No. 6.1e-218; Indels 0; Gaps 0;
Matches 373; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MANTTGEPEVSGALSPSPASAYVVKLVLLGLIMCVSLAGNALISLLVLERALHKAAPYF 60
DB 1 MANTTGEPEVSGALSPSPASAYVVKLVLLGLIMCVSLAGNALISLLVLERALHKAAPYF 60
QY 61 LLDLCLADGIRSAVCPFFVLASVRHSSWTFSLCKIYAFMAVLFCHFAAFMLFCISVT 120
DB 61 LLDLCLADGIRSAVCPFFVLASVRHSSWTFSLCKIYAFMAVLFCHFAAFMLFCISVT 120
QY 121 RYMAIAHRRFYAKRMTLMTCAAVICAMMTLSVMAFPVPDVGTYKFIREDDCIFEHRY 180
DB 121 RYMAIAHRRFYAKRMTLMTCAAVICAMMTLSVMAFPVPDVGTYKFIREDDCIFEHRY 180
QY 181 FRANDTLGFMMLAVLMAATHAVYKLLLEFYRHRIRKQVQVPAISQWTFHFGATQ 240
DB 181 FRANDTLGFMMLAVLMAATHAVYKLLLEFYRHRIRKQVQVPAISQWTFHFGATQ 240
QY 241 AAANWYAGRGGRGMPPTLLGIRONGHAASRRLLGMEVYGEKLGMPFAITLLFILLMS 300
DB 241 AAANWYAGRGGRGMPPTLLGIRONGHAASRRLLGMEVYGEKLGMPFAITLLFILLMS 300
QY 301 PIYVACYMRFVYKACAVPHRYLATAVWMSFPAQAAVNPVCFLLNKKLCTTHAPCWGT 360
DB 301 PIYVACYMRFVYKACAVPHRYLATAVWMSFPAQAAVNPVCFLLNKKLCTTHAPCWGT 360
QY 361 GGAPAPREPYCWM 373
DB 361 GGAPAPREPYCWM 373

RESULT 6
ADG6383
ID ADG6383 Standard; protein; 373 AA.
AC ADG6383;
XX
XX 11-MAR-2004 (first entry)
XX
DE Human endogenous orphan GPCR hARE-2.
XX
XX Human; receptor; endogenous orphan GPCR; G protein-coupled receptor;
KM transmembrane domain 6.
XX
OS Homo sapiens.
XX
XX US2003229216-A1.
XX
XX 11-DEC-2003.
XX
XX 16-APR-2003; 2003US-00417820.
XX
XX 13-OCT-1998; 98US-010810496.
PR 12-NOV-1998; 98US-0108029P.
PR 20-NOV-1998; 98US-0109213P.
PR 27-NOV-1998; 98US-0110060P.
PR 16-FEB-1999; 99US-0120416P.
PR 26-FEB-1999; 99US-0121852P.
PR 12-MAR-1999; 99US-0123944P.

PR 12-MAR-1999; 99US-0123945P.
PR 12-MAR-1999; 99US-0123946P.
PR 12-MAR-1999; 99US-0123948P.
PR 12-MAR-1999; 99US-0123949P.
PR 12-MAR-1999; 99US-0123951P.
PR 12-MAR-1999; 99US-0123951P.
PR 28-MAY-1999; 99US-0136436P.
PR 28-MAY-1999; 99US-0136437P.
PR 28-MAY-1999; 99US-0136439P.
PR 28-MAY-1999; 99US-0136567P.
PR 28-MAY-1999; 99US-0137127P.
PR 28-MAY-1999; 99US-0137131P.
PR 29-JUN-1999; 99US-014148P.
PR 27-AUG-1999; 99US-0151114P.
PR 03-SEP-1999; 99US-0152524P.
PR 29-SEP-1999; 99US-0156555P.
PR 29-SEP-1999; 99US-0156633P.
PR 29-SEP-1999; 99US-0156634P.
PR 29-SEP-1999; 99US-0156635P.
PR 01-OCT-1999; 99US-0157280P.
PR 01-OCT-1999; 99US-0157281P.
PR 01-OCT-1999; 99US-0157282P.
PR 01-OCT-1999; 99US-0157293P.
PR 01-OCT-1999; 99US-0157294P.
PR 12-OCT-1999; 99US-00416760.

XX (CHEN/) CHEN R.
PA (LIAM/) LIAM C. W.
PA (LOWITZ/) LOWITZ K.
PA (CHAL/) CHALMERS D. T.
PA (BEHA/) BEHAN D. P.

PI Chen R, Liam CW, Lowitz K, Chalmers DT, Behan DP;

DR WPI; 2004-052038/05.

XX N-PSDB; ADG6382.

PT New cDNA encoding a non-endogenous, constitutively activated version of a
PT human G protein-coupled receptor, useful for identifying receptor,
PT inverse or partial agonists having potential applicability as therapeutic
PT agents.

XX Example 1; SEQ ID NO 22; 110pp; English.

XX The invention relates to a cDNA encoding a non-endogenous, constitutively
XX activated version of a human G protein-coupled receptor comprising hARE-
XX 3 (F313K), hARE-4 (V233K), hARE-5 (A240K), hGPCR14 (L257K), hGPCR27 (C283K),
XX hARE-1 (E232K), hARE-2 (G285K), hPR1 (L239K), hG2A (K232A), hRUP5 (L224K),
XX hRUP6 (A236K), hRUP7 (A302K), hCHN4 (V236K), hMC4 (V244K),
XX hCHN3 (S284K), hCHN6 (L352K), hCHN8 (N235K) or hH9 (F236K). Also included are
XX a non-endogenous version of a human G protein-coupled receptor encoded by
XX the cDNA, a plasmid comprising the vector and the cDNA and a host cell
XX comprising the plasmid. The cDNA encodes a non-endogenous, constitutively
XX activated version of a human G protein-coupled A11 receptor comprising
XX the angiotensin II type 1 receptor hAT1 (F239K), hAT1 (N111A),
XX hAT1 (ATK251C), a domain swap mutant) or hAT1 (A243*). The mutation is of
XX an amino acid 16 residues from the proline in transmembrane domain 6 and
XX is usually to a lysine. The cDNA is useful for identifying candidate
XX compounds as receptor agonists, inverse agonists or partial agonists
XX having potential applicability as therapeutic agents. The present
XX sequence represents a wild-type human GPCR.

XX Sequence 373 AA;

Query Match 100.0%; Score 1992; DB 8; Length 373;
Best Local Similarity 100.0%; Pred. No. 6.1e-218; Indels 0; Gaps 0;
Matches 373; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MANTTGEPEVSGALSPSPASAYVVKLVLLGLIMCVSLAGNALISLLVLERALHKAAPYF 60
DB 1 MANTTGEPEVSGALSPSPASAYVVKLVLLGLIMCVSLAGNALISLLVLERALHKAAPYF 60
QY 61 LLDLCLADGIRSAVCPFFVLASVRHSSWTFSLCKIYAFMAVLFCHFAAFMLFCISVT 120

Db	61	LIDDLADGIRSAVCPFPPLASVRRGSSMTFSLSKCIYAFAVAVLECFHAAPFLFCISVT	120
Qy	121	RYMAIAHHRFYAKRMTLWTCAAVTCMAWTLISVMAAEPPVFDVGTYKFIREDQCIFEHRV	180
Db	121	RYMAIAHHRFYAKRMTLWTCAAVTCMAWTLISVMAAEPPVFDVGTYKFIREDQCIFEHRV	180
Qy	181	FRANDTLGFMMLAVLMAATHAVYGLLLPEFRHRRCKRVQWPALISQWTFHGPBATOQ	240
Db	181	FRANDTLGFMMLAVLMAATHAVYGLLLPEFRHRRCKRVQWPALISQWTFHGPBATOQ	240
Qy	241	AAANNIAGGRGPMPTLLIGIRONGHAAARRLLIGMDEVGEEKOLGMFYAITLLFTLLMS	300
Db	241	AAANNIAGGRGPMPTLLIGIRONGHAAARRLLIGMDEVGEEKOLGMFYAITLLFTLLMS	300
Qy	301	PYIVACYMVFVKACAVPHRYLATAVMMSFAQAAVNPVCFLLNKDLKKCLTTIHAQCWGT	360
Db	301	PYIVACYMVFVKACAVPHRYLATAVMMSFAQAAVNPVCFLLNKDLKKCLTTIHAQCWGT	360
Qy	361	GGAPAPREPYCVM 373	
Db	361	GGAPAPREPYCVM 373	
RESULT 7			
ADP20176			
ID	ADP20176	standard; protein; 373 AA.	
XX	ADP20176;		
AC			
XX			
DT	26-AUG-2004	(first entry)	
XX			
DE			
XX		Human G protein coupled receptor hARE-2.	
XX			
KM		antiinflammatory; GPCR-agonist; GPCR-antagonist;	
KM		G protein-coupled receptor; GPCR; GPCR modulator; inflammation;	
KM		pharmaceutical composition; inflammatory disorder; human; hARE-2.	
XX			
OS	Homo sapiens.		
XX			
PN	US2004110238-A1.		
XX			
PD	10-JUN-2004.		
XX			
PF	26-NOV-2003;	2003US-00723955.	
XX			
PR	13-OCT-1998;	98US-00170496.	
PR	12-NOV-1998;	98US-0108029P.	
PR	20-NOV-1998;	98US-0109213P.	
PR	27-NOV-1998;	98US-0110060P.	
PR	16-FEB-1999;	99US-0120416P.	
PR	26-FEB-1999;	99US-0121852P.	
PR	12-MAR-1999;	99US-0123944P.	
PR	12-MAR-1999;	99US-0123945P.	
PR	12-MAR-1999;	99US-0123946P.	
PR	12-MAR-1999;	99US-0123948P.	
PR	12-MAR-1999;	99US-0123949P.	
PR	12-MAR-1999;	99US-0123951P.	
PR	28-MAY-1999;	99US-0136436P.	
PR	28-MAY-1999;	99US-0136437P.	
PR	28-MAY-1999;	99US-0136439P.	
PR	28-MAY-1999;	99US-0136567P.	
PR	28-MAY-1999;	99US-0137127P.	
PR	28-MAY-1999;	99US-0137131P.	
PR	29-JUN-1999;	99US-0141448P.	
PR	27-AUG-1999;	99US-0151114P.	
PR	03-SEP-1999;	99US-0152524P.	
PR	29-SEP-1999;	99US-0156555P.	
PR	29-SEP-1999;	99US-0156633P.	
PR	29-SEP-1999;	99US-0156653P.	
PR	01-OCT-1999;	99US-0157280P.	
PR	01-OCT-1999;	99US-0157281P.	
PR	01-OCT-1999;	99US-0157282P.	

BR	01-OCR-1999;	99US-0157293P.
BR	01-OCR-1999;	99US-0157294P.
PR	12-OCR-1999;	99US-00416760.
PR	16-APR-2003;	2003US-00417820.
XX		
PA	(CHEN//)	CHEN R.
PA	(LIAM//)	LIAM C W.
PA	(LOWI//)	LOWITZ K.
PA	(CHAL//)	CHALMERS D T.
PA	(BERA//)	BEHAN D P.
PI	Chen R, Liam CW, Lowitz K, Chalmers DT, Behan DP;	
XX		
DR	WPI: 2004-440359/41.	
XX	N-PSDB; ADP20175.	
PT	Identifying one or more candidate compounds as a modulator of a G protein	
PT	-coupled receptor (GPCR), useful for treating disorders or conditions	
PI	associated with expression or activity of the GPCR.	
XX		
PS	Example 1; SEQ ID NO 22; 106pp; English.	
XX		
CC	The invention describes a method of identifying one or more candidate	
CC	compounds as a modulator of a G protein-coupled receptor that comprises a	
CC	fully defined sequence of 337 amino acids (SEQ ID NO: 82), comprising	
CC	contacting the one or more compounds with a host cell or with a membrane	
CC	of a host cell that expresses the receptor, and measuring the ability of	
CC	the compound or compounds to inhibit or stimulate functionality of the	
CC	receptor. Also described are: a method for identifying one or more	
CC	candidate compounds as a modulator of inflammation; a method for	
CC	identifying one or more candidate compounds as a modulator of a G protein	
CC	-coupled receptor; a compound identified by any of the methods cited	
CC	above; a pharmaceutical composition; a method of modulating the activity	
CC	of a G protein-coupled receptor having the amino acid sequence of SEQ ID	
CC	NO:82; a method of modulating inflammation in a mammal in need of the	
CC	modulating; a method of inhibiting inflammation in a mammal in need of	
CC	the inhibiting; a method of preventing or treating an inflammatory	
CC	disorder in a mammal in need of the preventing or treating; and a method	
CC	of treating an inflammatory disorder. The methods and compositions of the	
CC	present invention are useful for the treatment of diseases or conditions	
CC	associated with aberrant expression or activity of the GPCR e.g.	
CC	inflammation. This is the amino acid sequence of human G protein coupled	
CC	receptor (GPCR) HARE-2.	
XX		
SEQ	Sequence 373 AA;	
Query Match	100.0%; Score 1992; DB 8; Length 373;	
Best Local Similarity	100.0%; Pred. No.6,1e-218;	
Matches 373; Conservative	0; Mismatches 0; Indels 0; Gaps 0;	
QY	1 MANTTGEBEERSGALSPPSASAYVYVLLGLIMCVSLAGNALISLVLKERALHKAPYF	60
DB	1 MANTTGEBEERSGALSPPSASAYVYVLLGLIMCVSLAGNALISLVLKERALHKAPYF	60
QY	61 ILIDICLADGIRSAVCFPVTLASVHRGSSWTFSAISCKIVAMAVLFCFHAAPMLFCISVT	120
DB	61 ILIDICLADGIRSAVCFPVTLASVHRGSSWTFSAISCKIVAMAVLFCFHAAPMLFCISVT	120
QY	121 RYMAIAHHRFPAKRMTLMTCAAVICMAWTLSSVANAAPPVGVGYKFLREDDOCIFEHRY	180
DB	121 RYMAIAHHRFPAKRMTLMTCAAVICMAWTLSSVANAAPPVGVGYKFLREDDOCIFEHRY	180
QY	181 FKANDTLGFMMLAVLMATAAVYVGLLFEYRHRKMKPVOMVPAISQNTFHHGATGQ	240
DB	181 FKANDTLGFMMLAVLMATAAVYVGLLFEYRHRKMKPVOMVPAISQNTFHHGATGQ	240
QY	241 AAAMNIAGFGGMPFTLLIGIRONGHAASRLGMDVEYGEKOLGRMFYAITLLFLIMS	300
DB	241 AAAMNIAGFGGMPFTLLIGIRONGHAASRLGMDVEYGEKOLGRMFYAITLLFLIMS	300
QY	301 PIYVACYKRVYVYKACAVHRILATRVNMSFVQAAVNPVTCFLNKDKLCTTHAPCMGT	360
DB	301 PIYVACYKRVYVYKACAVHRILATRVNMSFVQAAVNPVTCFLNKDKLCTTHAPCMGT	360

QY 361 GGAPAREPYCWM 373
 |||||
 DB 361 GGAPAREPYCWM 373

RESULT 8
 ADQ75080
 ID ADQ75080 standard; protein; 373 AA.

AC ADQ75080;
 XX
 DT 07-OCT-2004 (first entry)
 XX
 DE Human G protein-coupled receptor ARE-2.
 XX
 KW Human; receptor; GPCR; G protein-coupled receptor; ARE-2.
 XX
 OS Homo sapiens.
 XX
 PN US2004137509-A1.
 PD 15-JUL-2004.
 XX
 PF 19-FEB-2004; 2004US-00782596.
 XX
 PR 20-NOV-1998; 98US-0109213P.
 PR 16-FEB-1999; 99US-0120416P.
 PR 26-FEB-1999; 99US-0121852P.
 PR 12-MAR-1999; 99US-0123946P.
 PR 12-MAR-1999; 99US-0123949P.
 PR 28-MAY-1999; 99US-0136436P.
 PR 28-MAY-1999; 99US-0136437P.
 PR 28-MAY-1999; 99US-0136439P.
 PR 28-MAY-1999; 99US-0136567P.
 PR 28-MAY-1999; 99US-0137127P.
 PR 28-MAY-1999; 99US-0137131P.
 PR 29-JUN-1999; 99US-0141448P.
 PR 28-SEP-1999; 99US-0156333P.
 PR 29-SEP-1999; 99US-0156555P.
 PR 29-SEP-1999; 99US-0156634P.
 PR 29-SEP-1999; 99US-0156633P.
 PR 01-OCT-1999; 99US-0157280P.
 PR 01-OCT-1999; 99US-0157281P.
 PR 01-OCT-1999; 99US-0157282P.
 PR 01-OCT-1999; 99US-0157293P.
 PR 01-OCT-1999; 99US-0157294P.
 PR 12-OCT-1999; 99US-00417044.
 PR 06-JUN-2001; 2001US-00875076.

XX (LIAM/) LIAM C W.
 PA (LINI/) LIN I.
 XX
 PI Llaw CW, Lin I;
 XX
 DR WPI, 2004-533360/51.
 DR N-PSDB; ADQ75079.
 PT
 PT Identifying one or more candidate compounds as modulators of a G protein-
 PT coupled receptor, useful as pharmaceutical agents, comprises measuring
 PT the ability of the compound or compounds to inhibit or stimulate
 PT functionality of the receptor.
 XX
 PS Claim 5; SEQ ID NO 20; 57BP; English.
 XX
 CC The invention relates to identifying one or more candidate compounds as
 CC modulators of a G protein-coupled receptor comprising an endogenous human
 CC ARE-2 polypeptide (appearing as ADQ75080) comprising measuring the ability
 CC of the compound or compounds to inhibit or stimulate functionality of the
 CC receptor. The endogenous human ARE-2 polypeptide is encoded by a
 CC nucleotide sequence, the nucleotide sequence is obtained by performing
 CC nucleic acid hybridisation on a sample of human DNA library using
 CC specific probe EST (expressed sequence tag) clone 68530, where the amino

CC acid at amino acid position 285 of the endogenous human ARE-2 polypeptide
 CC is substituted with another amino acid, and where the glycine at amino
 CC acid position 285 of SEQ ID NO. 20 is substituted with an amino acid
 CC other than glycine (e.g. lysine). The method is useful for identifying
 CC one or more candidate compounds as modulators of a G protein-coupled
 CC receptor. The compounds are useful as pharmaceutical agents, or in
 CC research. Also disclosed are the cDNA open reading frames of other human
 CC GPCRs identified using the EST probe. The present sequence represents a
 CC human GPCR whose encoding sequence was identified using the EST probe.

XX
 SQ Sequence 373 AA;
 Query Match 100.0%; Score 1992; DB 8; Length 373;
 Best Local Similarity 100.0%; Pred. No. 6.1e-218;
 Matches 373; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MANTGEPREVSAGALSPSASAYVKLVLLGLIMCVSLAAGNALISLVKERLHKAPYF 60
 |||||
 DB 1 MANTGEPREVSAGALSPSASAYVKLVLLGLIMCVSLAAGNALISLVKERLHKAPYF 60

QY 61 LLDLCIADGIRGAVCPFFYLASVRHSSWTFSAISCKIVAFMAVLFCEFAAEMLFCISVT 120
 |||||
 DB 61 LLDLCIADGIRGAVCPFFYLASVRHSSWTFSAISCKIVAFMAVLFCEFAAEMLFCISVT 120

QY 121 RYMAIAHHRFYAKRMTLWTCAAVTCMAWTLVYAMAPPVFDVGYKFIREDQCIFEHRY 180
 |||||
 DB 121 RYMAIAHHRFYAKRMTLWTCAAVTCMAWTLVYAMAPPVFDVGYKFIREDQCIFEHRY 180

QY 181 FRANDTLGFMLMAVIMAAITAVYKGLLFEYRHRMKVQVPAISQWTFHGPATQ 240
 |||||
 DB 181 FRANDTLGFMLMAVIMAAITAVYKGLLFEYRHRMKVQVPAISQWTFHGPATQ 240

QY 241 AAANWTAGRGPMPTLLGIRONGHAAASRLIGMEVGEKOLGMFAITLLFLLMS 300
 |||||
 DB 241 AAANWTAGRGPMPTLLGIRONGHAAASRLIGMEVGEKOLGMFAITLLFLLMS 300

QY 301 PYIVACYWVFYKACAVPHRYLATAVMSPQAQAVNPVYCFLLNKDLKKCLTTHACWGT 360
 |||||
 DB 301 PYIVACYWVFYKACAVPHRYLATAVMSPQAQAVNPVYCFLLNKDLKKCLTTHACWGT 360

QY 361 GGAPAREPYCWM 373
 |||||
 DB 361 GGAPAREPYCWM 373

RESULT 9
 AAY30534
 ID AAY30534 standard; protein; 373 AA.
 XX
 AC AAY30534;
 XX
 DT 15-NOV-1999 (first entry)
 XX
 DE A G protein-coupled receptor protein designated SREB3.
 XX
 KW G protein-coupled receptor protein; SREB3; central nervous system;
 KW inflammatory disorder; immunological.
 XX
 OS Homo sapiens.
 XX
 PN MO9946378-A1.
 XX
 PD 16-SEP-1999.
 XX
 PF 11-MAR-1999; 99WO-UP001191.
 XX
 PR 12-MAR-1998; 98JP-00060245.
 PR 03-FEB-1999; 99JP-00026774.
 XX
 PA (YAMA) YAMANOUCHI PHARM CO LTD.
 XX
 PI Matsumoto M, Sugimoto T, Takasaki J, Saito T, Kobayashi M;

DR WPI; 1999-551407/46.
 DR N-PSDB; AA210562.
 XX
 PT G protein-coupled receptor proteins expressed in the central nervous
 PT system and genes encoding them.
 XX
 PS Example 1; Page 57-58; 72pp; Japanese.
 XX
 CC The present sequence represents a G protein-coupled receptor protein,
 CC designated SREB3. The protein is expressed in the central nervous system.
 CC The SREB products are used for the diagnosis and treatment of diseases of
 CC the central nervous system, including inflammatory disorders of
 CC immunological origin
 CC
 SQ Sequence 373 AA;
 Query Match 99.7%; Score 1986; DB 2; Length 373;
 Best Local Similarity 99.7%; Pred. No. 3e-217;
 Matches 372; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1 MANTGEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNATLSLVKERALHKAPYF 60
 DB 1 MANTGEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNATLSLVKERALHKAPYF 60
 QY 61 LLDLCLADGIRSAVCEPFLASVRHSSWTFSAISCKIVAFMAVLFCEFAAFMLFCISVT 120
 DB 61 LLDLCLADGIRSAVCEPFLASVRHSSWTFSAISCKIVAFMAVLFCEFAAFMLFCISVT 120
 QY 121 RYMAIHRFRYAKRMTLMTCAAVICMAWTLISVMAFPVFDVGTYKFIREEDOCIFEHRY 180
 DB 121 RYMAIHRFRYAKRMTLMTCAAVICMAWTLISVMAFPVFDVGTYKFIREEDOCIFEHRY 180
 QY 181 FRANDTLGFMMLAVMAATHAVYKLLFEYRHRMKRPQWVPALISQWMTFFGPATGQ 240
 DB 181 FRANDTLGFMMLAVMAATHAVYKLLFEYRHRMKRPQWVPALISQWMTFFGPATGQ 240
 QY 241 AAANWLAGFGRGMPPTLLGIRONGHAASRLLGMDVGEKOLGEMFAITLLFFLLMS 300
 DB 241 AAANWLAGFGRGMPPTLLGIRONGHAASRLLGMDVGEKOLGEMFAITLLFFLLMS 300
 QY 301 PYIVACYMVFYKACAVPHRYLATAVWMSFAQAANVPYVCFLLNKCLKCLTTHAPCWGT 360
 DB 301 PYIVACYMVFYKACAVPHRYLATAVWMSFAQAANVPYVCFLLNKCLKCLTTHAPCWGT 360
 QY 361 GGAPAPREBYCVM 373
 DB 361 GGAPAPREBYCVM 373
 RESULT 10
 AA97747
 ID AA97747 standard; protein; 373 AA.
 XX
 AC AA97747;
 XX
 DT 06-AUG-2001 (first entry)
 XX
 DE Human Monalisa protein sequence.
 XX
 KW Monalisa; human; G-protein coupled receptor; infection; 1 HIV-1; HIV-2;
 KW pain; cancer; diabetes; obesity; anorexia; bulimia; asthma; hypotension;
 KW Parkinson's disease; acute heart failure; hypertension; osteoporosis;
 KW urinary retention; angina pectoris; myocardial infarction; stroke; ulcer;
 KW allergy; benign prostatic hypertrophy; migraine; psychotic disorder;
 KW neurological disorder; anxiety; schizophrenia; manic depression;
 KW delirium; dementia; severe mental retardation; dyskinesia; therapy;
 KW Huntington's disorder; Gilles de la Tourette's syndrome.
 XX
 OS Homo sapiens.
 XX
 PN WO200132833-A2.
 XX
 PD 10-MAY-2001.

XX
 PF 06-NOV-2000; 2000MO-US030541.
 XX
 PR 04-NOV-1999; 99US-00433840.
 XX
 XX (SMK) SMITHKLINE BEECHAM CORP.
 PA (SMK) SMITHKLINE BEECHAM PLC.
 XX
 PI Zhu Y, Li X, Vawter L;
 XX
 DR WPI; 2001-335827/35.
 DR N-PSDB; AA91486.
 XX
 PT New Monalisa G-protein coupled receptor polypeptides and polynucleotides,
 PT useful for treating certain diseases (e.g. infections, pain or cancers),
 PT in diagnostic assays, or for identifying compounds for therapy.
 XX
 PS Claim 1; Page 27; 32pp; English.
 XX
 CC This sequence is the human Monalisa protein of the invention. The
 CC Monalisa protein is a member of the G-protein coupled receptor family.
 CC The Monalisa polypeptide and polynucleotide are useful for treating
 CC infections e.g. bacterial, fungal or viral infections particularly those
 CC caused by HIV-1 or HIV-2. The Monalisa sequences are also useful for
 CC treating pain, cancers, diabetes, obesity, anorexia, bulimia, asthma,
 CC Parkinson's disease, acute heart failure, hypotension, hypertension,
 CC urinary retention, osteoporosis, angina pectoris, myocardial infarction,
 CC stroke, ulcers, allergies, benign prostatic hypertrophy, migraine,
 CC vomiting, psychotic and neurological disorders (including anxiety,
 CC schizophrenia, manic depression, Huntington's disorder, and severe mental
 CC retardation), dyskinesias, Huntington's disorder, and polynucleotide are also
 CC useful in diagnostic assays, as well as in identifying compounds (e.g.
 CC agonists or antagonists) that are potentially useful in therapy
 XX
 SQ Sequence 373 AA;
 Query Match 99.7%; Score 1986; DB 4; Length 373;
 Best Local Similarity 99.7%; Pred. No. 3e-217;
 Matches 372; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1 MANTGEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNATLSLVKERALHKAPYF 60
 DB 1 MANTGEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNATLSLVKERALHKAPYF 60
 QY 61 LLDLCLADGIRSAVCEPFLASVRHSSWTFSAISCKIVAFMAVLFCEFAAFMLFCISVT 120
 DB 61 LLDLCLADGIRSAVCEPFLASVRHSSWTFSAISCKIVAFMAVLFCEFAAFMLFCISVT 120
 QY 121 RYMAIHRFRYAKRMTLMTCAAVICMAWTLISVMAFPVFDVGTYKFIREEDOCIFEHRY 180
 DB 121 RYMAIHRFRYAKRMTLMTCAAVICMAWTLISVMAFPVFDVGTYKFIREEDOCIFEHRY 180
 QY 181 FRANDTLGFMMLAVMAATHAVYKLLFEYRHRMKRPQWVPALISQWMTFFGPATGQ 240
 DB 181 FRANDTLGFMMLAVMAATHAVYKLLFEYRHRMKRPQWVPALISQWMTFFGPATGQ 240
 QY 241 AAANWLAGFGRGMPPTLLGIRONGHAASRLLGMDVGEKOLGEMFAITLLFFLLMS 300
 DB 241 AAANWLAGFGRGMPPTLLGIRONGHAASRLLGMDVGEKOLGEMFAITLLFFLLMS 300
 QY 301 PYIVACYMVFYKACAVPHRYLATAVWMSFAQAANVPYVCFLLNKCLKCLTTHAPCWGT 360
 DB 301 PYIVACYMVFYKACAVPHRYLATAVWMSFAQAANVPYVCFLLNKCLKCLTTHAPCWGT 360
 QY 361 GGAPAPREBYCVM 373
 DB 361 GGAPAPREBYCVM 373
 RESULT 11
 ABP81720
 ID ABP81720 standard; protein; 373 AA.

XX AC ABP81720.
 XX 04-MAR-2003 (first entry)
 DT 04-MAR-2003 (first entry)
 XX DE Human Strept3 protein SEQ ID NO:615.
 XX G protein-coupled receptor; GPCR; antigenic peptide; gene therapy;
 KM G protein-coupled receptor modulator; antibody; immune-related disease;
 KM growth-related disease; cell regeneration-related disease; AIDS; cancer;
 KM immunological-related disease; cell proliferative disease; autoimmune disease;
 KM Alzheimer's disease; atherosclerosis; infection; osteoarthritis; allergy;
 KM osteoporosis; cardiomyopathy; inflammation; Crohn's disease; diabetes;
 KM graft versus host disease; Parkinson's disease; multiple sclerosis; pain;
 KM psoriasis; anxiety; depression; schizophrenia; dementia; memory loss;
 KM mental retardation; epilepsy; asthma; tuberculosis; obesity; nausea;
 KM hypertension; hypotension; renal disorder; rheumatoid arthritis; trauma;
 KM ulcer.
 XX Homo sapiens.
 XX MO200261087-A2.
 XX 08-AUG-2002.
 PD 08-AUG-2002.
 XX 19-DEC-2001, 2001MO-US050107.
 PF 19-DEC-2001, 2000US-0257144P.
 PR 19-DEC-2000, 2000US-0257144P.
 XX (LIFE-) LIFESPAN BIOSCIENCES INC.
 PA Burner GC, Roush CL, Brown JP;
 PI MPI, 2003-046718/04.
 DR N-PSDB; AB242356.
 XX New isolated antigenic peptides e.g., for G protein-coupled receptors
 PT (GPCR), useful for diagnosing and designing drugs for treating conditions
 PT in which GPCRs are involved, e.g. AIDS, Alzheimer's disease, cancer or
 PT autoimmune diseases.
 XX Disclosure; Fig 1; 523p; English.
 PS The present invention describes antigenic peptides (I) comprising: (a)
 XX any one of 1601 sequences (see ABP82019 to ABP83119) of 12-24 amino
 CC acids. Also described: (1) an assay for the detection of a particular G
 CC protein-coupled receptor (GPCR) or a candidate polypeptide in a sample;
 CC and (2) an isolated antibody having high specificity and high affinity or
 CC avidity for a particular GPCR. (I) can be used as GPCR modulators and in
 CC gene therapy. The antigenic peptides for GPCRs are useful in detecting an
 CC antibody against a particular GPCR, and in the production of specific
 CC antibodies. The peptides and antibodies are also useful for detecting the
 CC presence or absence of corresponding GPCRs. The antigenic peptides for
 CC GPCRs and antibodies are useful for diagnosing and designing drugs for
 CC treating immune-related diseases, growth-related diseases, cell
 CC regeneration-related disease, immunological-related cell proliferative
 CC diseases, or autoimmune diseases, e.g. AIDS, Alzheimer's disease,
 CC atherosclerosis, bacterial, fungal, protozoan or viral infections,
 CC osteoarthritis, osteoporosis, cancer, cardiomyopathy, chronic and acute
 CC inflammation, allergies, Crohn's disease, diabetes, graft versus host
 CC disease, Parkinson's disease, multiple sclerosis, pain, psoriasis,
 CC anxiety, depression, schizophrenia, dementia, mental retardation, memory
 CC loss, epilepsy, asthma, tuberculosis, obesity, nausea, hypertension,
 CC hypotension, renal disorders, rheumatoid arthritis, cirrhoma, ulcers, or
 CC any other disorder in which GPCRs are involved. The antibodies may be
 CC used in immunoassays and immunodiagnoses. AB242523 to AB242869 encode
 CC GPCR proteins given in ABP81675 to ABP82018, which are used in the
 CC exemplification of the present invention
 XX Sequence 373 AA;

Query Match 99.7%; Score 1986; DB 6; Length 373;
 Best Local Similarity 99.7%; Pred. No. 3e-217;

Matches 372; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1 MANTGPEPEVSGALSPPSASAYVKLVTLGLIMCVSLAGNAIISLVYKERALHKAQYF 60
 DB 1 MANTGPEPEVSGALSPPSASAYVKLVTLGLIMCVSLAGNAIISLVYKERALHKAQYF 60
 QY 61 LLDLCIADGIRSAVCEPPVLASVRGSSWTFSAISCKIYAFMAVLCFHAAMFLCISVT 120
 DB 61 LLDLCIADGIRSAVCEPPVLASVRGSSWTFSAISCKIYAFMAVLCFHAAMFLCISVT 120
 QY 121 RYVAIHHFRFYAKRMTLMTCAVTCAMTSLSVMAAPPPVDCTYTFIREDDCIEHRY 180
 DB 121 RYVAIHHFRFYAKRMTLMTCAVTCAMTSLSVMAAPPPVDCTYTFIREDDCIEHRY 180
 QY 181 FKANDTLGFMPLMAVMAAHTAAVYKLLPEYHRMRKRPQWPAISQMTFPGATGQ 240
 DB 181 FKANDTLGFMPLMAVMAAHTAAVYKLLPEYHRMRKRPQWPAISQMTFPGATGQ 240
 QY 241 AAAMWTAGFGRGMPPTLLGIRONGHAASRLIGMDEVGKOLGMEFYATILLFLLMS 300
 DB 241 AAAMWTAGFGRGMPPTLLGIRONGHAASRLIGMDEVGKOLGMEFYATILLFLLMS 300
 QY 301 PYTVACYMRFVYKACAVPHRYLATAVMSFAQAAVNPVYCFLLNKDKLCTTHAPCWGT 360
 DB 301 PYTVACYMRFVYKACAVPHRYLATAVMSFAQAAVNPVYCFLLNKDKLCTTHAPCWGT 360
 QY 361 GGAPAPREPCVM 373
 DB 361 GGAPAPREPCVM 373
 RESULT 12
 ADG12836
 ID ADG12836 standard; protein; 373 AA.
 XX ADG12836;
 AC 26-FEB-2004 (first entry)
 XX 26-FEB-2004 (first entry)
 DT Human wild-type hSREB3 amino acid sequence SEQ ID NO:59.
 XX G protein coupled receptor; GPCR;
 KM G protein coupled receptor internalisation; arrestin;
 KM G protein coupled receptor kinase; GRK; modified GRK; cardiant;
 KM cardiovascular; hypotensive; antiarteriosclerotic; nephrotropic;
 KM antidiabetic; antiasthmatic; respiratory; antiinflammatory; antiallergic;
 KM antitumescic; antiarthritic; gastrointestinal; antidepressant;
 KM analgesic; anorectic; antiparkinsonian; nootropic; neuroprotective;
 KM immunosuppressive; cyostatic; G protein antagonist;
 KM aberrant GPCR desensitisation; angina pectoris; hypertension;
 KM myocardial infarction; arrhythmia; congestive heart failure;
 KM atherosclerosis; renal failure; diabetes; asthma; chronic bronchitis;
 KM rhinitis; allergy; rheumatoid arthritis; inflammatory bowel disease;
 KM gastric ulcer; pain; obesity; depression; obsessive-compulsive disorder;
 KM Parkinson's disease; Alzheimer's disease; multiple sclerosis; cancer;
 KM human.
 XX Homo sapiens.
 OS Homo sapiens.
 XX MO2003097795-A2.
 PN MO2003097795-A2.
 XX 27-NOV-2003.
 PD 27-NOV-2003.
 XX 12-MAY-2003; 2003MO-US014581.
 PF 12-MAY-2003; 2003MO-US014581.
 XX 13-MAY-2002; 2002US-0379986P.
 PR 13-MAY-2002; 2002US-0379986P.
 XX 07-AUG-2002; 2002US-0401698P.
 PR 07-AUG-2002; 2002US-0401698P.
 XX (NORA-) NORAK BIOSCI INC.
 PA Oakley RH, Hudson CC;
 XX Oakley RH, Hudson CC;
 PI MPI, 2004-022856/02.
 DR MPI, 2004-022856/02.

CC diseases); and disorders of the kidney, liver, lung, breast, ovary, uterus, prostate, testis, skin, stomach, pancreas, spleen, thymus and thyroid (e.g., cancer). The present sequence represents a GPCR of the CC invention. Note: The full sequence data for this patent did not form part of the printed specification; those sequences not shown were obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pcr_sequences.

XX Sequence 373 AA:

Query Match 99.7%; Score 1986; DB 8; Length 373;

Best Local Similarity 99.7%; Pred. No. 3e-217;

Matches 372; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MANTGEPREVSAGALSPSPASAYVKLVGLIMCVSLAGNALISLVLKERALHKAPYF 60
 DB 1 MANTGEPREVSAGALSPSPASAYVKLVGLIMCVSLAGNALISLVLKERALHKAPYF 60
 QY 61 LLDLCIADGIRSAVCPFFVLASVRHSSWTFSAISCKIYAFMAVLFCHAAFMFLFCISVT 120
 DB 61 LLDLCIADGIRSAVCPFFVLASVRHSSWTFSAISCKIYAFMAVLFCHAAFMFLFCISVT 120
 QY 121 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLVSAMAPPPVDVGTGYKFIREDQCIFEHRY 180
 DB 121 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLVSAMAPPPVDVGTGYKFIREDQCIFEHRY 180
 QY 181 FRANDTLGFMMLAVMAATHAVYKLLFEYHRKMKVQWPAISQWTFHGPATQ 240
 DB 181 FRANDTLGFMMLAVMAATHAVYKLLFEYHRKMKVQWPAISQWTFHGPATQ 240
 QY 241 AAANWIAAGRGPMPTLLGIRONGHAASRRLGMDVGEKOLGMPFAITLLFLLMS 300
 DB 241 AAANWIAAGRGPMPTLLGIRONGHAASRRLGMDVGEKOLGMPFAITLLFLLMS 300
 QY 301 PYIVACYWRFVYKACAVPHRYLATAVWMSFAQAAVNPVFCFLNKLKKCLTTHAPCWGT 360
 DB 301 PYIVACYWRFVYKACAVPHRYLATAVWMSFAQAAVNPVFCFLNKLKKCLTTHAPCWGT 360
 QY 361 GGAPAPREPYCVM 373
 DB 361 GGAPAPREPYCVM 373

RESULT 14

AE8B7475 standard; protein; 373 AA.

XX AE8B7475;

XX 20-OCT-2005 (first entry)

XX G protein coupled receptor, SREB3.

XX Cardiovascular-Gen.; Cytostatic; Endocrine-Gen.; Antianemic;

XX Respiratory-Gen.; Neuoprotective; Gynecological; Neotropic;

XX Antiasthmatic; Hypotensive; Anticancer; Cardiant; Antiallergic;

XX Neuroleptic; Muscular-Gen.; Antidepressant;

XX G protein coupled receptor inhibitor;

XX G protein coupled receptor activator; SREB3; diagnosis;

XX Cardiovascular disease; Endocrine disease; Genitourinary disease;

XX Cardiology; Gynecology and obstetrics; Hematological disease;

XX Metabolic disorder; Neoplasia; Neurological disease; Respiratory disease.

XX Homo sapiens.

OS Homo sapiens.

XX Key Location/Qualifiers

XX MISC-difference 146

XX FT /note= "Encoded by ACG"

XX WO2005075991-A1.

XX 18-AUG-2005.

XX

XX

XX

XX

PF 26-JAN-2005; 2005WO-EP000721.

XX 04-FEB-2004; 2004EP-00002394.

PR (FARB) BAYER HEALTHCARE AG.

XX Golz S, Brueggemeier U, Geerts A, Summer H, Thiele R;

XX MPI: 2005-591680/60.

XX N-PSDB; AE8B7474.

XX Screening for therapeutic agents useful for treating e.g. cardiovascular

XX disease involves contacting test compound with seven transmembrane G

XX protein coupled receptor; and detecting binding of the test compound with

XX the receptor.

XX disclosure; SEQ ID NO 2; 105bp; English.

XX The invention relates to a method of screening for therapeutic agents

XX useful in the treatment of e.g. cardiovascular disease, endocrinological

XX disease and neurological disease, comprising contacting a test compound

XX with G protein coupled receptor SREB3 polypeptide. The method is useful

XX for screening, diagnosing or treating cardiovascular disease, cancer,

XX endocrinological disease, metabolic disease, hematological disease,

XX respiratory disease, neurological disease, urological disease or

XX reproduction disease in mammals. Also useful for treating hypertension,

XX ulcer, myocardial infarction, asthma, allergies, depression,

XX schizophrenia, dyskinnesia, delirium and dementia. The method provides the

XX screening of an agent for the treatment of a wide variety of diseases

XX including cardiovascular disease, cancer, endocrinological disease,

XX metabolic disease, hematological disease, respiratory disease,

XX neurological disease, urological disease or reproduction disease, by

XX detecting the binding and/or activity with a G protein coupled receptor,

XX SREB3 that is highly expressed in various brain tissues. The present

XX sequence represents the amino acid sequence of the G protein coupled

XX receptor, SREB3.

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RESULT 15

AAW99953
ID AAW9953 standard; protein; 378 AA.
XX AAW9953;
AC
XX
DT 04-JAN-2002 (first entry)
XX
DE Human expressed polypeptide SEQ ID NO 77.
XX
KW Human; nocrotropic; neuroprotective; cytosolic; dermatological; virulence;
KW immunosuppressive; antiinflammatory; anti-HIV; antibacterial; vulnereary;
KW antiparkinsonian; antistickling; antianaemic; antiarthritic; cancer;
KW antirheumatic; hepatocrotropic; cerebroprotective; antiinflammatory;
KW antiallergic; antidiabetic; antilucer; anticonvulsant; antifungal;
KW antiparasitic; cardiac; immune disorder; cardiovascular disorder;
KW neurological disease; infection; nephrotropic; gene therapy; vaccine.
XX
OS Homo sapiens.
XX
XX
PN WO200155387-A1.
XX
PD 02-AUG-2001.
XX
PF 17-JAN-2001; 2001WO-US001310.
XX
PR 31-JAN-2000; 2000US-0179065P.
-PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
-PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0226686P.
PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227009P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.

PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0233397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0233399P.
PR 14-SEP-2000; 2000US-0234009P.
PR 14-SEP-2000; 2000US-0234010P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
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PR 26-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.
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PR 13-OCT-2000; 2000US-0239935P.
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PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249297P.

PR 17-NOV-2000; 2000US-0249299P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251989P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Rosen CA, Barash SC, Ruben SM;
XX
XX MPI: 2001-465573/50.
DR N-PSDB; AAI99565.
XX
XX Isolated digestive system associated polypeptide for treating, preventing
PT and/or prognosing disorders related to the digestive system including
PT digestive system cancers and also for testing and detection e.g.
PT diagnosis.
XX
XX Claim 11: SEQ ID NO 77; 509pp + Sequence Listing; English.
XX
CC The invention relates to novel genes (AAI99548-AAI99604) and proteins
CC (AAI99936-AAI99984) useful for preventing, treating or ameliorating
CC medical conditions e.g. by protein or gene therapy. The genes are
CC isolated from a range of human tissues disclosed in the specification.
CC The nucleic acids, proteins, antibodies and (ant)agonists are useful in
CC the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and
CC ovarian cancer and other cancers of the adrenal gland, bone, bone marrow,
CC breast, gastrointestinal tract, liver, lung, or urogenital; (b) immune
CC disorders e.g. Addison's disease, allergies, autoimmune haemolytic
CC anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease,
CC multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c)
CC cardiovascular disorders such as myocardial ischaemia; (d) wound healing
CC; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f)
CC infectious diseases such as viral, bacterial, fungal and parasitic
CC infections. Note: The sequence data for this patent did not form part of
CC the printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 378 AA:
Query Match 99.7%; Score 1986; DB 4; Length 378;
Best Local Similarity 99.7%; Pred. No. 3e-217;
Matches 372; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 MANTGEPREVSALSPSPASAYVKLVGLIMCVSLAGNAIISLVLKERALHKAPYF 60
DB 6 MANTGEPREVSALSPSPASAYVKLVGLIMCVSLAGNAIISLVLKERALHKAPYF 65
QY 61 LLDLCLADGIRSAVCEPFVLASVRHGSMTFSALSCRIAVFMAVLFCEFAFMFLFCISVT 120
DB 66 LLDLCLADGIRSAVCEPFVLASVRHGSMTFSALSCRIAVFMAVLFCEFAFMFLFCISVT 125
QY 121 RYVAIAHHRFYAKRMTLMTCAVIMCMTLSVMAAPPPVDVGTYKFIREDDCIFEHRY 180
DB 126 RYVAIAHHRFYAKRMTLMTCAVIMCMTLSVMAAPPPVDVGTYKFIREDDCIFEHRY 185
QY 181 FKANDTLGFMLAMVMAATHAAYYKLLPEYRHRKMKPVQVM/PAISQNTFPGGATGQ 240
DB 186 FKANDTLGFMLAMVMAATHAAYYKLLPEYRHRKMKPVQVM/PAISQNTFPGGATGQ 245
QY 241 AAANWLAGFGGMPPTLLGIRONGHAASRLLGMDEVKGEKQJGRMFYAITLLFLLWS 300
DB 246 AAANWLAGFGGMPPTLLGIRONGHAASRLLGMDEVKGEKQJGRMFYAITLLFLLWS 305

QY 301 PYIVACYMRFVXACAVPHRYLATAVWMSFQAQAVNPVCFELINKDKKCLTTHAPCMGT 360
DB 306 PYIVACYMRFVXACAVPHRYLATAVWMSFQAQAVNPVCFELINKDKKCLTTHAPCMGT 365
QY 361 GGAPADREPYCVM 373
DB 366 GGAPADREPYCVM 378

Search completed: March 7, 2006, 12:50:16
Job time : 188 secs

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GenCore version 5.1.7
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OM protein - protein search, using BW model

Run on: March 7, 2006, 12:50:34 ; Search time 40 Seconds
(without alignments)
897.221 Million cell updates/sec

Title: US-10-782-596-20

Perfect score: 1992

Sequence: 1 MANTGEPREVGALSPSPA.....HAPCWGTGAPAPREPYCWM 373

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : PIR_80:*
1: p1r1:*
2: p1r2:*
3: p1r3:*
4: p1r4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1986	99.7	373	2 JC7289	G-protein coupled
2	1288.5	64.7	370	2 T47131	G-protein coupled
3	1031	51.8	375	2 JC7287	G-protein coupled
4	264	13.3	387	2 149246	D4 dopamine recept
5	260	13.1	400	2 G01977	d3 dopamine recept
6	259.5	13.0	449	2 S02011	serotonin receptor
7	259.5	13.0	471	2 S11280	serotonin receptor
8	259.5	13.0	471	2 S40889	5-hydroxytryptamin
9	257	12.9	471	2 A43956	serotonin receptor
10	256.5	12.9	471	2 A34863	serotonin receptor
11	256	12.9	400	2 G00013	D3 dopamine recept
12	250.5	12.6	453	2 S32817	gasirin receptor -
13	247.5	12.4	387	1 DYNHD4	dopamine receptor
14	247	12.4	452	2 JC2459	gasirin/cholecysto
15	244	12.2	448	2 S36402	serotonin receptor
16	243.5	12.2	447	2 A47430	gasirin/cholecysto
17	243	12.2	448	2 A47519	serotonin receptor
18	241.5	12.1	450	2 B40392	alpha-2-adrenergic
19	238.5	12.0	450	2 A34169	alpha-2-adrenergic
20	237	11.9	446	1 DYTDD3	dopamine receptor
21	237	11.9	477	2 S71323	alpha-1A adrenergi
22	236	11.8	481	2 S49442	serotonin receptor
23	236	11.8	481	2 S43687	serotonin receptor
24	236	11.8	483	2 A25896	beta-adrenergic re
25	235	11.8	445	2 A48881	serotonin receptor
26	234	11.7	446	2 I48322	dopamine receptor
27	233	11.7	446	2 S68423	serotonin receptor
28	232	11.6	460	2 A32605	serotonin receptor
29	231.5	11.6	458	2 JS0616	serotonin receptor

30	231.5	11.6	464	2 S12591	beta-1-adrenergic
31	231	11.6	466	2 S36794	beta-1-adrenergic
32	230	11.5	461	2 A31237	alpha-2C-adrenergi
33	228.5	11.5	428	2 JN0692	cholecystokinin ty
34	228	11.4	422	2 I38209	serotonin receptor
35	226.5	11.4	430	2 I51898	cholecystokinin A
36	226.5	11.4	436	2 JCS599	cholecystokinin-A
37	226.5	11.4	450	2 A38316	alpha-2-adrenergic
38	226	11.3	450	2 JQ1614	gasirin receptor -
39	225.5	11.3	450	2 I49481	alpha-2 adrenergic
40	225.5	11.3	477	1 QRUDB1	beta-1-adrenergic
41	225	11.3	683	2 T37240	serotonin receptor
42	224.5	11.3	366	2 A47321	serotonin receptor
43	224.5	11.3	459	2 A43951	serotonin receptor
44	224	11.2	379	2 JC6178	serotonin receptor
45	224	11.2	504	2 A41783	tachykinin recepto

ALIGNMENTS

RESULT 1

UC7289
G-protein coupled receptor, SREB3 - human
C/Species: Homo sapiens (man)
C/Date: 18-Aug-2000 #sequence_revision 18-Aug-2000 #ext_change 09-Jul-2004
C/Accession: JC7289
R/Matsumoto, M.; Saito, T.; Takasaki, J.; Kamohara, M.; Sugimoto, T.; Kobayashi, M.; Tak
Biochem. Biophys. Res. Commun. 272, 576-582, 2000
A/Title: An evolutionarily conserved G-protein coupled receptor family, SREB, expressed
A/Reference number: JC7287
A/Accession: JC7289
A/Molecule type: mRNA
A/Residues: 1-373 <MAT>
A/Cross-references: UNIPROT:Q9NS66; UNIPARC:UPI0000050480; DDBJ:AB040799
C/Genetics:
A/Gene: srebb3
A/Map position: Xp11
A/Superfamily: endothelin receptor B
C/Keywords: brain; G protein-coupled receptor; glycolysis; reproduction; transmembrane]

Query Match	99.7%	Score 1986	DB 2	Length 373
Best Local Similarity	99.7%	Pred. No. 8.1e-174		
Matches	372	Conservative	0	Mismatches 1; Indels 0; Gaps 0;
QY	1	MANTGEPREVGALSPSPAAYVKLVLLGLIMCVSLAGNATLSLVTKERALHKAPYYF	60	
DB	1	MANTGEPREVGALSPSPAAYVKLVLLGLIMCVSLAGNATLSLVTKERALHKAPYYF	60	
QY	61	LDDLCLADGIRSAVCPFFVLASVRHGSWTFSAISCKIVAFMAVLFCHFAAFMLFCISVT	120	
DB	61	LDDLCLADGIRSAVCPFFVLASVRHGSWTFSAISCKIVAFMAVLFCHFAAFMLFCISVT	120	
QY	121	RYMAIAHHRFYAKRMTLMTCAAVICMAWTLVYMAAPVFDVGYKFIREDQCIFEHRY	180	
DB	121	RYMAIAHHRFYAKRMTLMTCAAVICMAWTLVYMAAPVFDVGYKFIREDQCIFEHRY	180	
QY	181	FRANDTLGFMMLAVLMAATHAVYGLLFFVRRHMKRVQVPAISQWTTGHPAATQ	240	
DB	181	FRANDTLGFMMLAVLMAATHAVYGLLFFVRRHMKRVQVPAISQWTTGHPAATQ	240	
QY	241	AAANWIAFGRGMPPTLLGIRONGHAASRLLGMDVGEKOLGFMFAITLLFLLMS	300	
DB	241	AAANWIAFGRGMPPTLLGIRONGHAASRLLGMDVGEKOLGFMFAITLLFLLMS	300	
QY	301	PIYVACYWVFYKACAVPHRYLATATVWMSFAQAAVNPVLCFLINLKKCLTTTHAPCWGT	360	
DB	301	PIYVACYWVFYKACAVPHRYLATATVWMSFAQAAVNPVLCFLINLKKCLTTTHAPCWGT	360	
QY	361	GGAPAPREPYCWM 373		
DB	361	GGAPAPREPYCWM 373		

RESULT 2

T47131

G-protein coupled receptor, SREB2 - human

C:Species: Homo sapiens (man)

C>Date: 20-Apr-2000 #sequence_revision 20-Apr-2000 #text_change 09-Jul-2004

C:Accession: T47131, J07288

R:Pouetka, A.; Wellenreuther, R.; Mewes, H.W.; Well, B.; Wiemann, S.

submitted to the Protein Sequence Database, March 2000

A:Reference number: Z24374

A:Accession: T47131

A:Status: preliminary

A:Molecule type: mRNA

A:Residues: 1-370 <AAA>

A:Cross-references: UNIPROT: P60893; UNIPARC: UP10000004048; EMBL: AL161959; NID: g7328012;

A:Experimental source: adult amygdala; clone DKFZ6761108121

R:Matsumoto, M.; Saito, T.; Takasaki, J.; Kamohara, M.; Sugimoto, T.; Kobayashi, M.; Tad

Biochem. Biophys. Res. Commun. 272, 576-582, 2000

A:Title: An evolutionarily conserved G-protein coupled receptor family, SREB, expressed

A:Reference number: J07287

A:Accession: J07288

A:Molecule type: mRNA

A:Residues: 1-370 <MAT>

A:Cross-references: UNIPARC: UP10000004048; DDBJ: AB040799

C:Genetics:

A:Gene: srebb2

A:Map position: 7q31

A:Note: DKFZ6761108121.1

C:Keywords: Brain; G protein-coupled receptor; glycolysis; reproduction; transmembrane p

Query Match 64.7%; Score 1288.5; DB 2; Length 370;

Best Local Similarity 62.7%; Pred. No. 4.6e-110;

Matches 225; Conservative 56; Mismatches 77; Indels 7; Gaps 4;

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DB 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

QY 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

DB 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

QY 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

DB 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

QY 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

DB 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

QY 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

DB 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

QY 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

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DB 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

QY 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

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DB 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

A:Accession: J07287

A:Molecule type: mRNA

A:Residues: 1-375 <MAT>

A:Cross-references: UNIPROT: Q9NS67; UNIPARC: UP10000049802; DDBJ: AB040799

C:Genetics:

A:Gene: srebb1

A:Map position: 3p21-14

C:Keywords: brain; glycolysis; reproduction; transmembrane protein

Query Match 51.8%; Score 1031; DB 2; Length 375;

Best Local Similarity 54.1%; Pred. No. 1.6e-86;

Matches 196; Conservative 62; Mismatches 92; Indels 12; Gaps 5;

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DB 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

QY 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

DB 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

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DB 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

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DB 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

QY 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

DB 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

QY 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

DB 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

QY 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

DB 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

QY 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

DB 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

QY 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

DB 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

QY 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

DB 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

QY 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

DB 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

QY 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

DB 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

QY 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

DB 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

QY 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

DB 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

QY 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

DB 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

QY 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

DB 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

QY 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

DB 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

QY 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

DB 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

QY 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

DB 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

QY 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

DB 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

QY 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60

DB 1 MANTGPEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVLKERALHKAPYF 60


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Db      124  VVPLRVNQO---GGCOLLLIATWLLSAVASPVVCGINDVPG-RDPAVCLLENRDYV 189
Qy      163  ANDTIGFPLMLAVLMAATAVAVGKLLFE-YHRRCK-----KPVQWVAISQMTFHP 235
Db      190  YSSVCSFPLPCPLMLLVWATERGRLRMWAARHTKLHSAPRRP-----SGP 236
Qy      236  GATGQAANWIMGFGGPM-----PTLLGIR----- 262
Db      237  GPP-----VSDPTGCGFPFPDCCPPLPSLTSPSSSRPSELSORPCSPGLADAL 289
Qy      263  +QNGHAASRLLGMDVEKGEKQIGRMFYATLLFLLMSPIYVACWVFVACAVPHRY 321
Db      290  PQPEPSSRRRGAKITGERKAMRYLPVVGAFVLCWTFPFVHTTRALCPACFVSPRL 349
Qy      322  LATAVMSFAQAANPVIYVCFLLNKDK 348
Db      350  VSAVTMLGYVNSALNPDIYTFNAEPR 376

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RESULT 5

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G01977
d3 dopamine receptor - human
C,Species: Homo sapiens (man)
C,Date: 21-Dec-1996 #sequence_revision 06-Jun-1997 #text_change 09-Jul-2004
C,Accession: G01977
R,Fieldburn, C.S.; Park, B.
Submitted to the EMBL Data Library, July 1995
A,Reference number: G08971
A,Accession: G01977
A,Status: preliminary; translated from GB/EMBL/DBJ
A,Molecule type: mRNA
A,Residues: 1-400 <FIS>
A,Cross-References: UNIPROT:P35462; UNIPARC:UPI000002CDB; EMBL:U32499; NID:G927341; PDB
C,Superfamily: vertebrate rhodopsin

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Query Match      13.1%; Score 260; DB 2; Length 400;
Best Local Similarity 23.6%; Pred. No. 5, 3e-16;
Matches 94; Conservative 71; Mismatches 180; Indels 54; Gaps 14;

Qy      3  NTTGPEEVSALSPSASAYKVLVLGLIMCVSLAGNALSLVLKERALHKAPYFL 62
Db      12  NTGCAENSTGA-SGARPHAYVALSYCALILAI-VFNGLVGMAVLKERALQTTNYLV 69
Qy      63  DCLADGIRSAVCFPPVLASVRHGSWTSALCKIVAMAVLFCFHAAPMFCISVTRY 122
Db      70  SLAVADLVATLVMPVVVLEVTGGVWNPSCRICDVFVTLDMCTASILNCAISIDRY 129
Qy      123  MAI---AHHRFYAKMTLMTCAAVICMAWTLGVAAFPVPDVGTYKFIREDQCIFHR 179
Db      130  TAVVMPVHYQHGTCGSSCRVALMTAVAVLFAVSCPLIFGENT---TGDPVCSISNP 186
Qy      180  YRKA-NDTIGFPLMLAVLMAATAVAVGKL-LFEYHRRK-----MKP----- 219
Db      187  DVIIVSSVSFYLPRV-----TVLVYARIVVYLKQRRKRILTRQNSQNSVRPGPQOT 242
Qy      220  -----VQWNPALISQWTHGPGATQQAANWIMGSGRMPPTL-----LGTRQ-- 263
Db      243  LSPDPAHLLELKRYSICQDTALGSGFGFORGSLKKEKTRNSLSTPIPKLSLEVRKLS 302
Qy      264  NGAASRLRLGMDVEYV---EKQIGRMFYATLLFLLMSPIYVACWVFVACAVPHRY 318
Db      303  NORLSTSLKGLPQLQPRGVLPREKATQMAIVGAFVLCMLPFLTHVLTNTCQTCVSP 362
Qy      319  HRYLATVWMSFAQAANPVIYVCFLLNKDKLCKLTTHAPC 357
Db      363  ELYSAT-TWLGYNVNSALNPDIYTFNIEPRKAFKLITLSC 400

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RESULT 6

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S02011
serotonin receptor 2 - rat
N,Alternate names: 5-hydroxytryptamine receptor 2 (5-HT2)

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C,Species: Rattus norvegicus (Norway rat)
C,Date: 01-Dec-1989 #sequence_revision 01-Dec-1989 #text_change 09-Jul-2004
C,Accession: S02011
R,Pritchett, D.B.; Bach, A.W.J.; Mooney, M.; Taleb, O.; Dal Toso, R.; Shih, J.C.; Seeburg
EMBO J. 7, 4135-4140, 1988
A,Title: Structure and functional expression of cloned rat serotonin 5HT-2 receptor.
A,Reference number: S02011; MUID:89210797; PMID:2854054
A,Accession: S02011
A,Molecule type: mRNA
A,Residues: 1-449 <PRI>
A,Cross-References: UNIPROT:P14842; UNIPARC:UPI000017082C; EMBL:X13971; NID:G57855; PDB
C,Superfamily: vertebrate rhodopsin
C,Keywords: G protein-coupled receptor; transmembrane protein

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Query Match      13.0%; Score 259.5; DB 2; Length 449;
Best Local Similarity 24.4%; Pred. No. 6, 7e-16;
Matches 90; Conservative 68; Mismatches 150; Indels 61; Gaps 14;

Qy      17  PPSASAYVKL-----VLLGLIMCVSLAGNALSLVLKERALHKAPYFLDCLADG 69
Db      40  PPTCLSIHLQEKMSALLTTVIIITLTAAGTLVMAVSLKKQLQATNYFLMSLAIADM 99
Qy      70  IRSAVCFPPVLASVRHGSWTSALCKIVAMAVLFCFHAAPMFCISVTRYMAIA--- 126
Db      100  ILGFLVMPVSMLTIIYGRMPLPSKLCIWIYDLFFSYASIMHCAISLDRYVALQNP 159
Qy      127  -HHRFYAKMTLMTCAAVICMAWTLGVAAFP-PVEDVGTYKFIREDQCIF-EHRYFKA 183
Db      160  HHSRNSRTKAPLKIAY---WTISVGISMPFVFGLODSKVRKESGLADNDPVL 215
Qy      184  NDITGFPLMLAVLMAATAVAVGKLLFE-----YHRRKKPVQWNP-AISQWTFH 233
Db      216  GSFVAFPIPLTI-WITTFPLTIKSLQKENTLVCVSLSTRAKLASFLPQSSLSSEKLF- 273
Qy      224  GEGATQAANWIMGSGRMPPTLLIGTRONGHAASRLLG--MDVEKGEKQIGRMFYAI 291
Db      274  -----QNSIH-----REPGSYGRRTQSIISNEQKCKYLGIVF-- 308
Qy      292  TLLFLLMSPIYVACWVFYV-KAC-AVPHRYLATVWMSFAQAANPVIYVCFLLNKDK 348
Db      309  -LFAVVMCPFTTINIMAVTCKESCNENYIGALLNVFWIGLSSVNPVLTTLFNTKYR 366
Qy      349  KCLTTHAPC 357
Db      367  SAFSRVIQC 375

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RESULT 7

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S11280
serotonin receptor 2 - Chinese hamster
N,Alternate names: 5-hydroxytryptamine receptor 2 (5-HT2)
C,Species: Citellus griseus (Chinese hamster)
C,Date: 21-Nov-1993 #sequence_revision 10-Nov-1995 #text_change 09-Jul-2004
C,Accession: S11280
R,Chambers, J.C.; Van Obberghen-Schilling, E.; Haslam, R.J.; Youret, V.; Pouyssegur, J.
Nucleic Acids Res. 18, 5282, 1990
A,Title: Chinese hamster serotonin (5-HT) type 2 receptor cDNA sequence.
A,Reference number: S11280; MUID:90384833; PMID:2402449
A,Accession: S11280
A,Status: preliminary; translation not shown
A,Molecule type: mRNA
A,Residues: 1-471 <CHA>
A,Cross-References: UNIPROT:P18599; UNIPARC:UPI0000124F2E; EMBL:X53791; NID:G49455; PDB
C,Superfamily: vertebrate rhodopsin
C,Keywords: G protein-coupled receptor; transmembrane protein

```

```

Query Match      13.0%; Score 259.5; DB 2; Length 471;
Best Local Similarity 23.1%; Pred. No. 7e-16;
Matches 86; Conservative 66; Mismatches 152; Indels 69; Gaps 12;

Qy      17  PPSASAYVKL-----VLLGLIMCVSLAGNALSLVLKERALHKAPYFLDCLADG 69
Db      62  PPTCLSIHLQEKMSALLTAVVITLTAAGTLVMAVSLKKQLQATNYFLMSLAIADM 121

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QY 70 IRSACFPFVLASVHRGSSWTSFALSCKIVAFMAVLCFHAAPMFCISVTRYMAIA--- 126
DB 122 LIGFLVMPVSMILITLYGRNPLPSKLCAYWITYLIDVLFSTASIMHLCAISLDRVAIONDI 181
QY 127 -HHRFYAKMTLMTCAAVICMAWTLISVANAF-PVPDVGYTKYFIREEDCICF-EHRYEKA 183
DB 132 HHSRFRNSRTKAPFLKIIIAV---WTISVGSMPIPVFGLODDSKVFKQSGCLLADNPFVL 237
QY 134 NDTLGFMLMLAVLMAATHAVYKLLIFE-----YRRKMKPQVMVPAIS-----Q 228
DB 238 GSFVAFPIPLTI-MWITYFPLTKISQKEXATLCVSDLSSTRAKLASFSFLPQSSLSSEKLFQ 296
QY 229 NMTFSGPFGA-TGOAANWIAFGRGPMPTLLGIRONGHAASRRLLGMDVKGKQKQGRM 287
DB 257 RSIHREPGSYTGRRTMOSIS-----NEQKACVLTGIV 328
QY 288 FYAITLLPFLMLSPYIVACYWVFYKACAVPH---RYLATVAMWSFAQAAVNPICYELIN 344
DB 329 PF----LFFVVMCPEFITINIMAVICKESCNEHYIGALINVFVWIGYLSAVNPLVYTLFEN 384
QY 345 KDLKCLTTHAPC 357
DB 385 KTYRSAPSRVYIOC 397

RESULT 8
S40689
5-hydroxytryptamine 2 receptor - mouse
C:Species: Mus musculus (house mouse)
C:Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 09-Jul-2004
C:Accession: S40689
R.Yang, W.; Chen, K.; Lan, N.C.; Gallaher, T.K.; Shih, J.C.
J. Neurosci. Res. 33, 196-204, 1992
A:Title: Gene structure and expression of the mouse 5-HT2 receptor.
A:Reference number: S40689; MUID:93085774; PMID:333538
A:Accession: S40689
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-471 <YAN>
A:Cross-references: UNIPROT:P35363; UNIPARC:UPI00000040D4; EMBL:S49542; NID:9261074; PID:
A:Superfamily: Vertebrate rhodopsin
C:Keywords: G protein-coupled receptor; transmembrane protein

Query Match 13.0%; Score 259.5; DB 2; Length 471;
Best Local Similarity 24.1%; Pred. No. 76-16; Indels 61; Gaps 14;
Matches 89; Conservative 69; Mismatches 150;

QY 17 PPSASAYVKL-----VLLGLIMCVSLAGNALISLVKERALHRAPIYFLDLCLADG 69
DB 62 PPLCSILHLQEKMSALITTVIILITAGNLIIVMAVSEKKLQNAATVFLMSLAIDM 121
QY 70 IRSACFPFVLASVHRGSSWTSFALSCKIVAFMAVLCFHAAPMFCISVTRYMAIA--- 126
DB 122 LIGFLVMPVSMILITLYGRNPLPSKLCAYWITYLIDVLFSTASIMHLCAISLDRVAIONDI 181
QY 127 -HHRFYAKMTLMTCAAVICMAWTLISVANAF-PVPDVGYTKYFIREEDCICF-EHRYEKA 183
DB 182 HHSRFRNSRTKAPFLKIIIAV---WTISVGSMPIPVFGLODDSKVFKQSGCLLADNPFVL 237
QY 184 NDTLGFMLMLAVLMAATHAVYKLLIFE-----YRRKMKPQVMVPAIS-----Q 228
DB 238 GSFVAFPIPLTI-MWITYFPLTKISQKEXATLCVSDLSSTRAKLASFSFLPQSSLSSEKLFQ 296
QY 234 GPGATGOAANWIAFGRGPMPTLLGIRONGHAASRRLLG-MDEVKGKQKQGRMFPYAI 291
DB 296 -----QRSIH-----REPGSYAGRTWQISINSQKACKVGIYVF-- 330
QY 292 TLLFLLMSPIYIACYWVFV-K-AC--AVPHRLATAPVMSFAQAAVNPICYELINKDK 348
DB 331 --LFFVVMCPEFITINIMAVICKESCNEHYIGALINVFVWIGYLSAVNPLVYTLFENKTYR 388
QY 349 KCLTTHAPC 357

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DB 389 SAFSRVYIOC 397

RESULT 9
A43956
serotonin receptor 2A - human
N:Alternate names: 5-hydroxytryptamine receptor 2A (5-HT2A)
C:Species: Homo sapiens (man)
C:Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 09-Jul-2004
C:Accession: A43956; J50615; I56514
R.Chen, K.; Yang, W.; Grimsby, J.; Shih, J.C.
Brain Res. Mol. Brain Res. 14, 20-26, 1992
A:Title: The human 5-HT2 receptor is encoded by a multiple intron-exon gene.
A:Reference number: A43956; MUID:92356792; PMID:1323014
A:Accession: A43956
A:Molecule type: DNA
A:Residues: 1-471 <CHE>
A:Cross-references: UNIPROT:P28223; UNIPARC:UPI000000126E; GB:S42168; NID:6252946; PIDN:
A:Experimental source: normal lymphoblast cell line
A:Note: The authors translated the codon CCA for residue 405 as Thr and CCG for residue
A:Note: sequence extracted from NCBI backbone (NCBIN:110508, NCBIN:110524, NCBIN:110527)
R.Saltzman, A.G.; Morse, B.; Whitman, M.M.; Ivanchenko, Y.; Jaye, M.; Felder, S.
Biochem. Biophys. Res. Commun. 181, 1469-1478, 1991
A:Title: Cloning of the human serotonin 5-HT2 and 5-HT1C receptor subtypes.
A:Reference number: J50615; MUID:92109767; PMID:1722404
A:Accession: J50615
A:Molecule type: mRNA
A:Residues: 1-471 <SAL>
A:Cross-references: UNIPARC:UPI000000126E; GB:X57830; NID:936430; PIDN:CAA40963.1; PID:9
R.Cook, E.H.
J. Neurochem. 63, 465-469, 1994
A:Title: Primary structure of the human platelet serotonin 5-HT2A receptor: identify wit
A:Reference number: I56514; MUID:94308772; PMID:8035173
A:Accession: I56514
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-471 <RES>
A:Cross-references: UNIPARC:UPI000000126E; GB:S71229; NID:9547295; PIDN:AAB31320.1; PID
C:Comment: This protein is associated with vascular contraction and platelet aggregation
C:Genetic:
A:Gene: GDB:HT2A; HT2
A:Cross-references: GDB:125192; OMIM:182135
A:Map position: 13q14-13q21
A:Introns: 138/1; 205/1
A:Superfamily: Vertebrate rhodopsin
C:Keywords: G protein-coupled receptor; glycoprotein; neurotransmitter receptor; transm.
F:15-100/Domain: transmembrane #status predicted <TM1>
F:111-132/Domain: transmembrane #status predicted <TM2>
F:148-170/Domain: transmembrane #status predicted <TM3>
F:192-213/Domain: transmembrane #status predicted <TM4>
F:234-254/Domain: transmembrane #status predicted <TM5>
F:326-346/Domain: transmembrane #status predicted <TM6>
F:363-384/Domain: transmembrane #status predicted <TM7>
F:38-44,51,54/Binding site: carbonylate (Asn) (covalent) #status predicted

Query Match 12.9%; Score 257; DB 2; Length 471;
Best Local Similarity 23.9%; Pred. No. 1,2e-15;
Matches 90; Conservative 63; Mismatches 155; Indels 68; Gaps 13;

QY 13 GALSPPSASAY-----VKLVLLGLIMCVSLAGNALISLVKERALHRAPIYFLDLCL 66
DB 59 GCLSPSCSLHLQEKMSALITAVIILITAGNLIIVMAVSEKKLQNAATVFLMSLA 118
QY 67 AGGIRSAVCFPVLASVHRGSSWTSFALSCKIVAFMAVLCFHAAPMFCISVTRYMAIA 126
DB 119 ADMLIGFLVMPVSMILITLYGRNPLPSKLCAYWITYLIDVLFSTASIMHLCAISLDRVAIONDI 178
QY 127 -----HHRFYAKMTLMTCAAVICMAWTLISVANAF-PVPDVGYTKYFIREEDCICF-EHRY 180
DB 179 NPHHSRFRNSRTKAPFLKIIIAV---WTISVGSMPIPVFGLODDSKVFKQSGCLLADNPF 234
QY 181 FRANDTLGFMLMLAVLMAATHAVYKLLIFE-----YRRKMKPQVMVPAIS----- 227

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Db      235 VIGSFVSFPFILT-MVITYFLTKSLQKATLCVSDLTRAKLASFSFLPQSSLSSEK 293
Qy      228 I--QNTTFHBPQA-TGQAAANMIAFGRGMPPTLLIGRONGHAASRLLGMDVKEKOL 284
Db      294 LQQRSHRBPQSYTGRTMOSIS-----NQKCKVL 325
Qy      285 GRMFVAITLLFLLMSPYIACVWRVFK-AC--AVPHRYLATVAMMSFAQAAVNPVCE 341
Db      326 GIYVF---LFVVMKCPFTTINIMAVICKESCNEVDYIGALLNFWIGYLSAVNPLVTT 381
Qy      342 LNKDLKCLTTHAPC 357
Db      382 LFNKTYRASFRTIQC 397

RESULT 10
A34863
N:Alternatn names: 5-hydroxytryptamine receptor 2 (5-HT2)
C:Species: Rattus norvegicus (Norway rat)
C>Date: 22-Jan-1993 #sequence_revision 22-Jan-1993 #text_change 09-Jul-2004
C:Accession: A34863, A40574
R:Julius, D.; Huang, K.N.; Livelli, T.J.; Axel, R.; Jessell, T.M.
Proc. Natl. Acad. Sci. U.S.A. 87, 928-932, 1990
A>Title: The 5HT2 receptor defines a family of structurally distinct but functionally co
A:Reference number: A34863; MID:9018991; PMID:2300586
A:Accession: A34863
A:Molecule type: mRNA
A:Residues: 1-471 <JUL>
A:Cross-references: UNIPROT:P14842; UNIPARC:UPI00001778DF; GB:M30705
R:Lin, J.; Chen, Y.; Kozak, C.A.; Yu, L.
Genomics 11, 231-234, 1991
A>Title: The 5-HT2 serotonin receptor gene Htr-2 is tightly linked to Es-10 on mouse chr
A:Reference number: A40574; MID:9211222; PMID:1765383
A:Accession: A40574
A:Molecule type: mRNA
A:Residues: 1-309 'R', 311-471 <LJU>
A:Cross-references: UNIPARC:UPI0000124F31; GB:M64867
C:Superfamily: vertebrate rhodopsin
C:Keywords: G protein-coupled receptor; glycoprotein; phosphoprotein; transmembrane prot
Query Match      12.9%; Score 256.5; DB 2; Length 471;
Best Local Similarity 24.1%; Pred. No. 1,3e-15;
Matches 89; Conservative 69; Mismatches 150; Indels 61; Gaps 14;

Qy      17 PPSASAYVKL-----VLLGLIMCVSLAGNALISLVKERALHKAPYFLDLCLADG 69
Db      62 PPTCLSLHLOEKNGSALLTTVITLIGNILVIMAVSLKQLQNAITNFFLMSLADW 121
Qy      70 INSAVCFPPVLASVRGSSWTFSALSCKIYAFMAVLPCHAAFMLEFCISVTRMALA--- 126
Db      122 LIGFLVMPVSMILTYGRWPLPSKLCALWIYLDVLFSTASIMHLCALISLDRVAIONPI 181
Qy      127 -HHRFYAKMTLWTCAAVTCMAWTLSSVAAFP-PVFDVGYYKFIREDQIF-EHRYFKA 183
Db      182 HHSRFSKRTAKFIKIIA---WTISVGISMPLPVFGLODSDSVFEGSGCLADNDPVL 237
Qy      184 NPTLGFMLMLAVLMAATHAVYGLLFE-----YRHRKMPQVMPV--AISQWTPR 233
Db      238 GSVAVAFIPULTI-MVITYFLTKSLQKATLCVSDLTRAKLASFSFLPQSSLSSEKLF 295
Qy      234 GPGATQAAANMIAFGRGMPPTLLIGRONGHAASRLIG--MDVKEKOLGRMFYAI 291
Db      296 -----QRSIH-----REPGSYAKSKTMQSIISNEOKCKVGIYVF-- 330
Qy      292 TLLFLLMSPYIACVWRVFK-AC--AVPHRYLATVAMMSFAQAAVNPVCEFLNKDK 348
Db      331 --LFVVMKCPFTTINIMAVICKESCNEVDYIGALLNFWIGYLSAVNPLVTLFNKTYR 388
Qy      349 KCLTTHAPC 357
Db      389 SAFPRTIQC 397

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RESULT 11
G00013
D3 dopamine receptor - green monkey
C:Species: Cercopithecus aethiops (green monkey, grivet)
C>Date: 13-Mar-1997 #sequence_revision 13-Mar-1997 #text_change 09-Jul-2004
C:Accession: G00013
R:Ross, P.C.
submitted to the EMBL Data Library, February 1995
A:Reference number: G00049
A:Accession: G00013
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-400 <ROS>
A:Cross-references: UNIPROT:P52703; UNIPARC:UPI0000128DB0; EMBL:U21307; NID:9984965; PII
C:Superfamily: vertebrate rhodopsin
C:Keywords: neurotransmitter receptor

Query Match      12.9%; Score 256; DB 2; Length 400;
Best Local Similarity 23.8%; Pred. No. 1,2e-15;
Matches 96; Conservative 69; Mismatches 175; Indels 64; Gaps 15;

Qy      3 NTTGPEEYSGALSPPSASAYVKLVLLGLIMCVSLAGNALISLVKERALHKAPYFL 62
Db      12 NTTCGVENSTGA-SQARPHAYALSYCALIIAI-VFNGVLCVAVLKERALQTTNYLVV 69
Qy      63 DLCLADGIRSAVCFPPVLASVRGSSWTFSALSCKIYAFMAVLPCHAAFMLEFCISVTR 122
Db      70 SLAVADLVATLVMPVWVVLVETGVGNFNRVCCDFVTLDMVMTASILNLCALISIDR 129
Qy      123 MAIAHHRFY-----AKRMTLMTCAVTCMAWTLSSVAAFPVFDVGYYKFIREDQ 174
Db      130 TAVMPEVHYOHGCGSSCKRVTL-----MITAVVLAFVSCPLDFGPT--TGPTVC 181
Qy      175 IPEHRYFKA-NDTLGFMLMLAVLMAATHAVYGLL-LFERYHRK-----MKP- 219
Db      182 SISNPFVYISVSVSYLPFGV---TVLVYARIYVVLKQRRKRILTRONSQNSVRRG 237
Qy      220 -----VOMVAISQNTFHPGATQAAANMIAFGGMPPTL-----LG 260
Db      238 PFOQLSPDRAHLELRRYSICODTALGPGFERGELKREBERTNLSPTIAPLSLE 297
Qy      261 IRO--NGHAASRLLGMDVKEG---EKOLGRMFVAITLLFLLMSPYIACVWRVFK 314
Db      298 VKLSNGRLSTSKLQPLDPGRVPLBKATQVAVLGAFFYICWLPFLTHVLTNHCQ 357
Qy      315 CAV-PHRYLATVAMMSFAQAAVNPVCEFLNKLKKCLTTHAPC 357
Db      358 CHVSPELYSAT-TWLGYNVALNPVITYTFNIEFRAPFKIISC 400

RESULT 12
S32817
gastrin receptor - dog
C:Species: Canis lupus familiaris (dog)
C>Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 09-Jul-2004
C:Accession: S32817
R:Kopin, A.S.; Lee, Y.M.; McBride, E.W.; Miller, L.J.; Lu, M.; Lin, H.Y.; Kolakowski Jr
Proc. Natl. Acad. Sci. U.S.A. 89, 3605-3609, 1992
A>Title: Expression cloning and characterization of the canine parietal cell gastrin re
A:Reference number: S32817; MID:9222885; PMID:1373504
A:Accession: S32817
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-453 <ROP>
A:Cross-references: UNIPROT:P30552; UNIPARC:UPI000012B0E8; EMBL:M87834; NID:9163956; PII
C:Superfamily: neurokinin 1 receptor
C:Keywords: G protein-coupled receptor; transmembrane protein

Query Match      12.6%; Score 250.5; DB 2; Length 453;
Best Local Similarity 24.8%; Pred. No. 4,5e-15;
Matches 103; Conservative 61; Mismatches 171; Indels 81; Gaps 16;

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OY      3  NTTGBPEVSGALSPPSASAVKVLVLGLIMCVSLAGALISLVLKBERLHKAPYFEL  62
Db      36  NLSCEPPLRGA-GTRELLELAIRVLAVITLMSVGGVLLIIVLGLSRIRLRYTNALF  94
OY      63  DLCLADGIRSAVCEPFFVLASVRHSSWTFSAISCKIYAEMAULFCFPAAMFLFCISVTRY  122
Db      95  SLAVSDLLIAVACMPFTLLPRLMG-TFIFGVVCKAVSYLMGVSVSSTLSVALIERY  153
OY      123  MAIAHHRFYAKRMTLWTCANVICAMNTLSVMAAP-PVF---DVGYTKFTREDDCIFE  177
Db      154  SAICRPLQARVWQTRSHARVITATMLSGLWMPYPYTTAVQAPAGARAL---QCVHR  209
OY      178  HRYRKANDTLQPMML-----AVLMAATHAVYGLLIFEXRHKMKPVQVAPASQNT  231
Db      210  WPSARVQRTWSVTLLELFLFVPGVMAVAVGLISRELYLGRFPE-----DSDSESRV  262
OY      232  FHGCGATGOAANWITAGFGRGPMPT-----LGLRGNGHAA-----SRRLQMD-  276
Db      263  RSQGLRG-----GAGPGPAPRPNQSCREGGLAG--EDGDGCYVQLPRSRQTELSA  312
OY      277  -----EVKGEKQLGRMFYAITLLFLLMSPIYVACWYRPFVVAACAVPH  319
Db      313  LTAPTPGGGPRPYOAKTLAKKRVRLIIVLFFLCMPLYSANTWRPFDSSGA--H  370
OY      320  RYLATAV-----WMSFAQAAVNPIY-CFLLNKDKLCKLTTPACMGNGGAAPAREP  369
Db      371  PALSQAPISFTHILISYASACVNPVLYCCMHRRFRQACLETQARC-----CPRPP  419

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RESULT 13

*DYNDD4
dopamine receptor D4 - human
C.Species: Homo sapiens (man)
C.Date: 30-Sep-1992 #sequence_revision 30-Sep-1992 #text_change 09-Jul-2004
CAccession: S15079
Rivan Tol, H.H.M.; Bunzow, J.R.; Guan, H.C.; Sunahara, R.K.; Seeman, P.; Niznik, H.B.; Civikowski, W.
Nature 350, 610-614, 1991
Article: Cloning of the gene for a human dopamine D(4) receptor with high affinity for D(4) agonists
A.Reference number: S15079; PMID:1840645

A:Accession: S15079
A:Molecule type: DNA
A:Residues: 1^387 <VNA>
A:Cross-references: UNIPROT:P21917; UNIPARC:UPI000011F027; EMBL:X58497
C:Genetics:
A:Gene: GDB:DRD4
A:Cross-references: GDB:127782; OMTM:126452
A:Map position: 11p15.5-11p15.5
A:Introns: 95/3; 133/2; 269/2; 321/1
C:Superfamily: vertebrate rhodopsin
C:Keywords: alternative splicing; G protein-coupled receptor; glycoprotein; neurotransmitter
F:34-60/Domain: transmembrane #status predicted <TM1>
F:72-96/Domain: transmembrane #status predicted <TM2>
F:110-131/Domain: transmembrane #status predicted <TM3>
F:153-174/Domain: transmembrane #status predicted <TM4>
F:192-214/Domain: transmembrane #status predicted <TM5>
F:215-314/Domain: intracellular #status predicted <INT>
F:315-339/Domain: transmembrane #status predicted <TM6>
F:349-366/Domain: transmembrane #status predicted <TM7>
F:3/Binding site: carboxylate (Asn) (covalent) #status predicted
F:108-185/Disulfide bonds: #status predicted
F:149-239/Binding site: phosphate (Ser) (covalent) #status predicted
F:297-306/Binding site: phosphate (Thr) (covalent) #status predicted

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Best Local Similarity 24.0%; Pred. No. 7,1e-15;
Matches 88; Conservative 61; Mismatches 183; Indels 35; Gaps 9;

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DB 21 GASAGASAGLAGQAALVGVLIGAV---LADNSLVCSVATERALQPTPNSFIVSL 76
 | | | | : : : : | | | | : :
QY 65 CIADGIRSAVCPFFYLIVSRHGSSWTFALSCKIYAFAVALECFPAAMLCISTRTMA 124

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Db      77  A A D D L L A L L V L P L E F V S E V O G G A M L L S P R C D A L M A M D V M L C T A S I F N L C A I S V D R F V A      136
Qy      125  I A --- H H R F Y A K R M T L W T C A A V I C M A N T L S V A N A F P P V F D V G Y T K F I R E E O C I F E H R      179
Db      137  V A V P L A Y R O G G S R O L --- L L I G A T M L L S A A V A P Y L C G L I N D V R G - R D P A V C R L E H D      191
Qy      180  Y F X A N D T L G F M L M L A V M A A T H A Y V G K L L F E Y R R K M - - - - - K P V Q W P      224
Db      192  Y V V Y S V S C F P L P C P L M L L Y W A T F R G I Q R H E V A R A K L H G A P R P S G P S P F I P P A R      251
Qy      225  A I S O N W T F H G A T G O A A A N W I A G F G R G P M P E T L L - - G I R O N G H A A S R L L G M D E V K G E      281
Db      252  R L P Q D P C - - G E D C A P P A G L P P D P C G S N C A P P D A V A A L P P Q T P P Q T R R R R A K I T G R E      309
Qy      282  K O L G R M F A Y I T L L F L L M S P Y I V A C Y W F V Y K A C A P H R Y L A T A W M S P A Q A A V N I V C F      341
Db      310  R K A R V L E P V V V G A F I L C W T P E F V V H I T O A L C P A C S V P P R L V S A V T M L G V N S A L N P V I Y T      369
Qy      342  L I N K D L K      348
Db      370  V F N A E F R      376

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RESULT 14

JC2459
gastrin/cholecystokinin B receptor - rabbit
C:species: *Oryctolagus cuniculus* (domestic rabbit)
C:date: 21-Feb-1995 #sequence revision 05-Apr-1995 #text change 09-Jul-2004

C:Accession: UC2459
R:Blondilazzi, C.; Song, I.; Yamada, T.
Biochem. Biophys. Res. Commun. 2002. 947-953, 1994
A>Title: Molecular Cloning and structural analysis of the rabbit gastrin/CKKB receptor
A:Reference number: UC2459; MUID:94324990; PMID:8048969
A:Accession: UC2459
A:Molecule type: mRNA
A:Residues: 1-452 <BLA>
A:Cross-references: UNIPROT:P46627; UNIPARC:UPI000012B0EA; GB:L31548; NID:g495663; PIDN
C:Genetics:
A:Introns: 49/1; 133/1; 216/2; 273/1
C:Superfamily: neurokinin 1 receptor
C:Keywords: receptor; transmembrane protein
P:55-79/Domain: transmembrane #status predicted <TM1>
P:85-104/Domain: transmembrane #status predicted <TM2>
P:130-149/Domain: transmembrane #status predicted <TM3>
P:169-187/Domain: transmembrane #status predicted <TM4>
P:217-231/Domain: transmembrane #status predicted <TM5>
P:339-359/Domain: transmembrane #status predicted <TM6>
P:381-400/Domain: transmembrane #status predicted <TM7>

Query Match 12.4%; Score 247; DB 2; Length 452;
Best Local Similarity 24.1%; Pred. No. 9.3e-15;
Matches 101; Conservative 53; Mismatches 179; Indels 86; Gaps 13

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Db 34 NLSEPPRICA-GTRELALRTLYAVFLMSVGNIILIVLGLSRRLRTVNAFL 92

63 DLCLADGIRSAVCPFFVLASVRHSSWTFESALCKIVAFMAVLFCFHAAPMLFCISVTRY 122

Db 93 SLAVSDLLAVACMPFTLLPNLMG-TFIFGVICAKSVYLMSVSSTLSLVAIALERY 151

123 MAIAHRRFYAKRMTLWTCIAVICMAWTLSSVMAFP-PVF----DYGTYYKFTREDDQCIIE 177

Db 152 SAICRPLQARWQTRSHARVILATLWLSGLIMVPPYPTAVQPPGRVL-----QCTHR 206

178 HRYEKANDIGEMML-----AVIMATHAVYKLLPEYHRKMKPVOMPAISOQNT 231

Db 207 WPSARVROQTSVLLLLLLFFVPGVMAVAYSISRELYLGLRFDSDSSEQSRVRGCG 266

0Y 232 FHGPATGQAANW-----IAGFGRPMDP 256

Db 267 L P G G A A P P V Y N O G R C R P E A G L A G E D G D G C V Y Q L P R S R P A L E L S A L T A P I S C P G P G P R P - 325

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QY 257 TLGIRONGHAASRRLLGMDVEKGEKOLGMPFYATLLFLLMSPYIVACYWRFVYACA 316
DB 326 -----AQAKL-----AKKRVVRLVIVLFFMCWLPVYSANTWRAPFDGPGA 368
QY 317 VPHRYLATV-----WMSFAQAANPIV-CELLNKDLKKCLTTTHAPCWGTGAPAPREP 369
DB 369 --HRAISGAPISFIHLLSYASACNPLVVCFMHRRFRQACLDTCARC-----CPRP 418
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RESULT 15

S36402

serotonin receptor 7 - mouse

N.Alternate names: 5-hydroxytryptamine 7 receptor (5HTR-7)

C.Species: Mus musculus (house mouse)

C.Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 09-Jul-2004

C.Accession: I48779; S36402

R.Plasmid: J.L.; Amlaky, N.; Hen, R.

Mol. Pharmacol. 44, 229-236, 1993

A.Title: Molecular cloning of a mammalian serotonin receptor that activates adenylate cy

A.Reference number: I48779; PMID:93360913; PMID:8394987

A.Accession: I48779

A.Status: translated from GB/EMBL/DBJ

A.Molecule type: mRNA

A.Residues: 1-448 <RES>

A.Cross-references: UNIPROT:P32304; UNIPARC:UPI000002A019; EMBL:Z23107; NID:G396586; PID

C.Superfamily: vertebrate rhodopsin

C.Keyword: G protein-coupled receptor; glycoprotein; neurotransmitter receptor; transme

Query Match 12.2%; Score 244; DB 2; Length 448;

Best local similarity 22.0%; Pred. No. 1.7e-14;

Matches 82; Conservative 66; Mismatches 167; Indels 58; Gaps 10;

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DB 67 PNVSCGEGINGRVEKVTIGSILTLITLITAGNCLVIVSYCFVKNVRQPSNYLIVSL 126
QY 65 CIADGIRSAVCPPEVLASVRHSSWTFPSALSCKIAPMAVLPCFHAFMLFCISVTRVMA 124
DB 127 ALADLSVAVAVMPEVSVTDLIGSKMTFGHPCNVFTAMDVCTASIMTLCVISIDRYLG 186
QY 125 IAHRFYAKRMTLMTCAAVICMAWTLISVMAFPFVDVGTGKFIREDQCF--EHRVFX 182
DB 187 ITRPLTPYVRONGKCMKXMTLSVWPLSASTLPPLF--GMAQVNDKXCLISQDFGYTI 244
QY 183 ANDTIGFMLAVLMAATHAVYKLLLFYRHRKMKPVQNPALISQNWTFHGPATGQA 242
DB 245 YSTAVAFYIPIMSVMLFMYQIY-----KAARKSAA 274
QY 243 AMWAGFGGPMPTLLGIRONG-----HAASRLL-----GMDEVKGEKOLGRN 287
DB 275 KKHFSGFPR-VQESVIST--NGVVKLQKEVEECANLSRLKHERRKNTSFKREOKAATT 331
QY 288 FYAITLLFLLMSPYIVACYWRFV--KACA-VPHRYLATAVWMSFAQAANPIVCELLN 344
DB 332 LGITVGAFTVVCMLPFPLISTARPFICGTSCCIPLWVERTCLWIGYANSLINPFIYSFN 391
QY 345 KOLKKCLTTHAPC 357
DB 392 RDLRTYRSLLQC 404
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Search completed: March 7, 2006, 12:54:58
Job time : 42 secs

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GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: March 7, 2006, 12:55:09 ; Search time 165 Seconds
(without alignments)
944.548 Million cell updates/sec

Title: US-10-782-596-20

Perfect score: 1992
Sequence: 1 MANTTGBPBREVSGALSPSPA.....HAPCMGTGAPAPRPPCYM 373

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 10%

Listing first 45 summaries

Database : Published Applications AA Main:
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2: /cgn2_6/prodata/1/pubppaa/US08_PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	1992	100.0	373 3	US-09-875-076-20 Sequence 20, Appl
2	1992	100.0	373 3	US-09-876-252-22 Sequence 22, Appl
3	1992	100.0	373 4	US-10-872-983-20 Sequence 20, Appl
4	1992	100.0	373 4	US-10-393-807-20 Sequence 20, Appl
5	1992	100.0	373 4	US-10-417-820A-22 Sequence 22, Appl
6	1992	100.0	373 4	US-10-723-955-22 Sequence 22, Appl
7	1992	100.0	373 4	US-10-782-596-20 Sequence 20, Appl
8	1992	100.0	373 5	US-10-723-955-22 Sequence 22, Appl
9	1986	99.7	373 4	US-10-318-142-6 Sequence 6, Appl
10	1986	99.7	373 4	US-10-225-567A-615 Sequence 615, App
11	1986	99.7	373 5	US-10-788-197-59 Sequence 59, App
12	1986	99.7	373 5	US-10-898-329-6 Sequence 6, Appl
13	1986	99.7	378 4	US-10-073-885-77 Sequence 77, Appl
14	1986	99.7	387 5	US-10-788-197-61 Sequence 61, Appl
15	1986	99.7	611 5	US-10-505-486-49 Sequence 49, Appl
16	1977	99.2	373 3	US-09-760-354A-2 Sequence 2, Appl
17	1975	99.1	373 4	US-10-318-142-26 Sequence 26, Appl
18	1975	99.1	373 5	US-10-898-329-26 Sequence 26, Appl
19	1973	99.0	373 4	US-10-369-022-10 Sequence 10, Appl
20	1973	99.0	373 4	US-10-400-991-71 Sequence 71, Appl
21	1893	95.0	388 4	US-10-633-438-52 Sequence 52, Appl
22	1893	95.0	388 5	US-10-788-197-63 Sequence 63, Appl
23	1893	95.0	388 5	US-10-901-772-52 Sequence 52, Appl
24	1893	95.0	402 5	US-10-788-197-65 Sequence 65, Appl
25	1386	69.6	284 4	US-10-073-885-71 Sequence 71, Appl
26	1288.5	64.7	370 3	US-09-875-076-26 Sequence 26, Appl
27	1288.5	64.7	370 3	US-09-876-252-28 Sequence 28, Appl

28	1288.5	64.7	370 4	US-10-043-945-2 Sequence 2, Appl
29	1288.5	64.7	370 4	US-10-165-844-7 Sequence 7, Appl
30	1288.5	64.7	370 4	US-10-318-142-4 Sequence 4, Appl
31	1288.5	64.7	370 4	US-10-318-142-24 Sequence 24, Appl
32	1288.5	64.7	370 4	US-10-225-567A-611 Sequence 611, App
33	1288.5	64.7	370 4	US-10-572-983-26 Sequence 26, Appl
34	1288.5	64.7	370 4	US-10-417-820A-28 Sequence 28, Appl
35	1288.5	64.7	370 4	US-10-417-820A-28 Sequence 86, App
36	1288.5	64.7	370 4	US-10-692-605-14 Sequence 14, Appl
37	1288.5	64.7	370 4	US-10-723-955-28 Sequence 28, Appl
38	1288.5	64.7	370 4	US-10-782-596-26 Sequence 26, Appl
39	1288.5	64.7	370 4	US-10-755-889-6 Sequence 6, Appl
40	1288.5	64.7	370 5	US-10-898-329-4 Sequence 4, Appl
41	1288.5	64.7	370 5	US-10-898-329-24 Sequence 24, Appl
42	1288.5	64.7	370 5	US-10-723-955-28 Sequence 28, Appl
43	1288.5	64.7	370 5	US-10-073-885-79 Sequence 79, Appl
44	1288.5	64.7	379 4	US-10-073-885-79 Sequence 79, Appl
45	1288.5	64.7	379 4	US-10-073-885-79 Sequence 79, Appl

ALIGNMENTS

RESULT 1
US-09-875-076-20
; Sequence 20, Application US/09875076
; Publication No. US20030017528A1
; GENERAL INFORMATION:
; APPLICANT: Chen, Ruoping
; APPLICANT: Dang, Huang T.
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lin, I-Lin
; TITLE OF INVENTION: Human Orphan G Protein Coupled Receptors
; FILE REFERENCE: AREN0050
; CURRENT APPLICATION NUMBER: US/09/875,076
; CURRENT FILING DATE: 2001-06-06
; PRIOR APPLICATION NUMBER: 09/417,044
; PRIOR FILING DATE: 1999-10-12
; PRIOR APPLICATION NUMBER: 60/120,416
; PRIOR FILING DATE: 1999-02-16
; PRIOR APPLICATION NUMBER: 60/121,851
; PRIOR FILING DATE: 1999-02-26
; PRIOR APPLICATION NUMBER: 60/123,946
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123,949
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/136,436
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/136,437
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; PRIOR APPLICATION NUMBER: 60/136,439
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; PRIOR APPLICATION NUMBER: 60/136,567
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/137,127
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/137,131
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/141,448
; PRIOR FILING DATE: 1999-06-29
; PRIOR APPLICATION NUMBER: 60/156,653
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: 60/156,633
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: 60/156,555
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: 60/156,634
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: 60/157,280
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: 60/157,294
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: 60/157,281

;; PRIOR FILING DATE: 1999-10-01
;; PRIOR APPLICATION NUMBER: 60/157,293
;; PRIOR FILING DATE: 1999-10-01
;; PRIOR APPLICATION NUMBER: 60/157,282
;; PRIOR FILING DATE: 1999-10-01
;; NUMBER OF SEQ ID NOS: 74
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 20
;; LENGTH: 373
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-09-875-076-20

Query Match 100.0%; Score 1992; DB 3; Length 373;
Best Local Similarity 100.0%; Pred No. 5e-189;
Matches 373; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 61 LIDLCLADGIRSAVCPFPYLASVRRGSSWTFPSALSKKIYAFMAVLFCEFAAFMLFCISVT 120
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DB 121 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLVMAAPPPVDVGTYYFIREDDCIFEHR 180
QY 181 FRANDTLGFMMLAVLMAATHAVYKLLFEYRHRKRPQVNPALISQWTFHGPATQ 240
DB 181 FRANDTLGFMMLAVLMAATHAVYKLLFEYRHRKRPQVNPALISQWTFHGPATQ 240
QY 241 AAANWYAGRGMPPTLLGIRONGHAARRLLGMDVXGEQKGMFYAITLLFLLMS 300
DB 241 AAANWYAGRGMPPTLLGIRONGHAARRLLGMDVXGEQKGMFYAITLLFLLMS 300
QY 301 PVIYVACVWVFYKACAVPHRYLATAYWMSFAQAAVNPICYELNKKLCTTHAPCWT 360
DB 301 PVIYVACVWVFYKACAVPHRYLATAYWMSFAQAAVNPICYELNKKLCTTHAPCWT 360
QY 361 GGAPAPREBYCWM 373
DB 361 GGAPAPREBYCWM 373

RESULT 2

US-09-876-252-22
;; Sequence 22, Application US/09876252
;; Publication No. US20030018182A1
;; GENERAL INFORMATION:
;; APPLICANT: Behan, Dominic P.
;; APPLICANT: Lehmann-Brylisma, Karin
;; APPLICANT: Chalmers, Derek T.
;; APPLICANT: Lowitz, Kevin P.
;; APPLICANT: Lin, I-Lin
;; APPLICANT: Dang, Huong T.
;; APPLICANT: Chen, Kuoping
;; APPLICANT: Hsu, Chen W.
;; TITLE OF INVENTION: Non-Endogenous Constitutively Activated Human G Protein Coupled Rec
;; FILE REFERENCE: AREN-0054
;; CURRENT APPLICATION NUMBER: US/09/876,252
;; CURRENT FILING DATE: 2001-06-07
;; PRIOR APPLICATION NUMBER: 09/416,760
;; PRIOR FILING DATE: 1999-10-12
;; PRIOR APPLICATION NUMBER: 09/170,496
;; PRIOR FILING DATE: 1998-10-13
;; PRIOR APPLICATION NUMBER: 60/110,060
;; PRIOR FILING DATE: 1998-11-27
;; PRIOR APPLICATION NUMBER: 60/120,416
;; PRIOR FILING DATE: 1999-02-16
;; PRIOR APPLICATION NUMBER: 60/121,852
;; PRIOR FILING DATE: 1999-02-26

;; PRIOR APPLICATION NUMBER: 60/109,213
;; PRIOR FILING DATE: 1998-11-20
;; PRIOR APPLICATION NUMBER: 60/123,944
;; PRIOR FILING DATE: 1999-03-12
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;; PRIOR FILING DATE: 1999-03-12
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;; PRIOR APPLICATION NUMBER: 60/123,949
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;; PRIOR FILING DATE: 1999-09-03
;; PRIOR APPLICATION NUMBER: 60/151,114
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;; PRIOR APPLICATION NUMBER: 60/136,439
;; PRIOR FILING DATE: 1999-05-28
;; PRIOR APPLICATION NUMBER: 60/136,567
;; PRIOR FILING DATE: 1999-05-28
;; PRIOR APPLICATION NUMBER: 60/137,127
;; PRIOR FILING DATE: 1999-05-28
;; PRIOR APPLICATION NUMBER: 60/137,131
;; PRIOR FILING DATE: 1999-05-28
;; PRIOR APPLICATION NUMBER: 60/141,448
;; PRIOR FILING DATE: 1999-06-29
;; PRIOR APPLICATION NUMBER: 60/136,437
;; PRIOR FILING DATE: 1999-05-28
;; PRIOR APPLICATION NUMBER: 60/156,555
;; PRIOR FILING DATE: 1999-09-29
;; PRIOR APPLICATION NUMBER: 60/156,634
;; PRIOR FILING DATE: 1999-09-29
;; PRIOR APPLICATION NUMBER: 60/156,653
;; PRIOR FILING DATE: 1999-09-29
;; PRIOR APPLICATION NUMBER: 60/157,280
;; PRIOR FILING DATE: 1999-10-01
;; PRIOR APPLICATION NUMBER: 60/157,294
;; PRIOR FILING DATE: 1999-10-01
;; PRIOR APPLICATION NUMBER: 60/157,281
;; PRIOR FILING DATE: 1999-10-01
;; PRIOR APPLICATION NUMBER: 60/157,282
;; PRIOR FILING DATE: 1999-10-01
;; PRIOR APPLICATION NUMBER: 60/156,633
;; PRIOR FILING DATE: 1999-09-29
;; NUMBER OF SEQ ID NOS: 146
;; SOFTWARE: PatentIn version 3.0
;; SEQ ID NO 22
;; LENGTH: 373
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-09-876-252-22

Query Match 100.0%; Score 1992; DB 3; Length 373;
Best Local Similarity 100.0%; Pred No. 5e-189;
Matches 373; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MANTTGEPEVSGALSPSPASAVYKLVLLGLIMCVSLAGNAITLSLVKERALHKAPYYF 60
DB 1 MANTTGEPEVSGALSPSPASAVYKLVLLGLIMCVSLAGNAITLSLVKERALHKAPYYF 60
QY 61 LIDLCLADGIRSAVCPFPYLASVRRGSSWTFPSALSKKIYAFMAVLFCEFAAFMLFCISVT 120
DB 61 LIDLCLADGIRSAVCPFPYLASVRRGSSWTFPSALSKKIYAFMAVLFCEFAAFMLFCISVT 120
QY 121 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLVMAAPPPVDVGTYYFIREDDCIFEHR 180
DB 121 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLVMAAPPPVDVGTYYFIREDDCIFEHR 180


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QY 181 FRANDTLGFMMLAVMAATHAVYKLLFEYRHRKKKPVQWPAISQWTFHGPATGQ 240
DB 181 FRANDTLGFMMLAVMAATHAVYKLLFEYRHRKKKPVQWPAISQWTFHGPATGQ 240
QY 241 AANWTAGRGGMPTLLGIRONGHAASRLLGMDEVGEKOLGDMFYAITLLFLLWS 300
DB 241 AANWTAGRGGMPTLLGIRONGHAASRLLGMDEVGEKOLGDMFYAITLLFLLWS 300
QY 301 PYVACWYRVFVACAVPHRYLATAVWMSFAQAANVPVFCFLINKOLKKCLTTTHACWGT 360
DB 301 PYVACWYRVFVACAVPHRYLATAVWMSFAQAANVPVFCFLINKOLKKCLTTTHACWGT 360
QY 361 GGAPAREPYCVM 373
DB 361 GGAPAREPYCVM 373

RESULT 3
US-10-272-983-20
; Sequence 20, Application US/10272983
; Publication No. US20030148450A1
; GENERAL INFORMATION:
; APPLICANT: Chen, Huoping
; APPLICANT: Dang, Huong T.
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lin, I-Lin
; TITLE OF INVENTION: Human Orphan G Protein Coupled Receptors
; FILE REFERENCE: AREN0050
; CURRENT APPLICATION NUMBER: US/10/272,983
; PRIORITY FILING DATE: 2002-10-17
; PRIOR APPLICATION NUMBER: US/09/417,044
; PRIOR FILING DATE: 1999-10-12
; PRIOR APPLICATION NUMBER: 60/109,213
; PRIOR FILING DATE: 1998-11-20
; PRIOR APPLICATION NUMBER: 60/120,416
; PRIOR FILING DATE: 1999-02-16
; PRIOR APPLICATION NUMBER: 60/121,851
; PRIOR FILING DATE: 1999-02-26
; PRIOR APPLICATION NUMBER: 60/123,946
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123,949
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/136,436
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/136,437
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/136,439
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/136,567
; PRIOR FILING DATE: 1999-05-28
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 373
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-272-983-20

Query Match 100.0%; Score 1992; DB 4; Length 373;
Best Local Similarity 100.0%; Pred. No. 5e-189;
Matches 373; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB 121 RYVAIAHHRFYAKRMTLMTCAAVICMAWTLVSVAAPFVDOGTYYFIREEDCIFEHRX 180
QY 181 FRANDTLGFMMLAVMAATHAVYKLLFEYRHRKKKPVQWPAISQWTFHGPATGQ 240
DB 181 FRANDTLGFMMLAVMAATHAVYKLLFEYRHRKKKPVQWPAISQWTFHGPATGQ 240
QY 241 AANWTAGRGGMPTLLGIRONGHAASRLLGMDEVGEKOLGDMFYAITLLFLLWS 300
DB 241 AANWTAGRGGMPTLLGIRONGHAASRLLGMDEVGEKOLGDMFYAITLLFLLWS 300
QY 301 PYVACWYRVFVACAVPHRYLATAVWMSFAQAANVPVFCFLINKOLKKCLTTTHACWGT 360
DB 301 PYVACWYRVFVACAVPHRYLATAVWMSFAQAANVPVFCFLINKOLKKCLTTTHACWGT 360
QY 361 GGAPAREPYCVM 373
DB 361 GGAPAREPYCVM 373

RESULT 4
US-10-393-807-20
; Sequence 20, Application US/10393807
; Publication No. US20030175891A1
; GENERAL INFORMATION:
; APPLICANT: Chen, Huoping
; APPLICANT: Dang, Huong T.
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lin, I-Lin
; TITLE OF INVENTION: Human Orphan G Protein Coupled Receptors
; FILE REFERENCE: AREN0050
; CURRENT APPLICATION NUMBER: US/10/393,807
; PRIORITY FILING DATE: 2003-03-21
; PRIOR APPLICATION NUMBER: US/09/417,044
; PRIOR FILING DATE: 1999-10-12
; PRIOR APPLICATION NUMBER: 60/109,213
; PRIOR FILING DATE: 1998-11-20
; PRIOR APPLICATION NUMBER: 60/120,416
; PRIOR FILING DATE: 1999-02-16
; PRIOR APPLICATION NUMBER: 60/121,851
; PRIOR FILING DATE: 1999-02-26
; PRIOR APPLICATION NUMBER: 60/123,946
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123,949
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/136,436
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/136,437
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/136,439
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/136,567
; PRIOR FILING DATE: 1999-05-28
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 373
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-393-807-20

Query Match 100.0%; Score 1992; DB 4; Length 373;
Best Local Similarity 100.0%; Pred. No. 5e-189;
Matches 373; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB 121 RYMAIAHHRFYAKRMTLMTCAVTCMAWTLNVAMAPPPVFDVGTYSKFIREDQCIFEHRY 180
QY 181 FRANDTLGFMMLAVLMAATHAVYKGLLFEYRHRKMKVQVNPVPAISQWTFHGPATQ 240
| | | | |
DB 181 FRANDTLGFMMLAVLMAATHAVYKGLLFEYRHRKMKVQVNPVPAISQWTFHGPATQ 240
QY 241 AAANNIAGRGPMPTLLGIRONGHAASRRLGMDVGVGEKOLGMEFYAITLLFLLMS 300
| | | | |
DB 241 AAANNIAGRGPMPTLLGIRONGHAASRRLGMDVGVGEKOLGMEFYAITLLFLLMS 300
QY 301 PYIVACYMRFVYKACAVPHRYLATATVWMSFAQAAVNPVPCFLNKKCLTTTHAPCWGT 360
| | | | |
DB 301 PYIVACYMRFVYKACAVPHRYLATATVWMSFAQAAVNPVPCFLNKKCLTTTHAPCWGT 360
QY 361 GGAPAPREBYCYM 373
| | | | |
DB 361 GGAPAPREBYCYM 373
RESULT 5
US-10-417-820A-22
; Sequence 22, Application US/10417820A
; Publication No. US20030229216A1
; GENERAL INFORMATION:
; APPLICANT: Chen, Ruoping
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lowitz, Kevin
; APPLICANT: Chalmers, Derek T.
; APPLICANT: Behan, Dominic P.
; TITLE OF INVENTION: Constitutively Activated Human G Protein Coupled
; FILE REFERENCE: 7 US28 CON
; CURRENT APPLICATION NUMBER: US/10/417, 820A
; CURRENT FILING DATE: 2003-04-16
; PRIOR APPLICATION NUMBER: 09/416, 760
; PRIOR FILING DATE: 1999-10-12
; PRIOR APPLICATION NUMBER: 09/170, 496
; PRIOR FILING DATE: 1998-10-13
; PRIOR APPLICATION NUMBER: 60/110, 060
; PRIOR FILING DATE: 1998-11-27
; PRIOR APPLICATION NUMBER: 60/120, 416
; PRIOR FILING DATE: 1999-02-16
; PRIOR APPLICATION NUMBER: 60/121, 852
; PRIOR FILING DATE: 1999-02-26
; PRIOR APPLICATION NUMBER: 60/109, 213
; PRIOR FILING DATE: 1998-11-20
; PRIOR APPLICATION NUMBER: 60/123, 944
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123, 945
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123, 948
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123, 951
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 155
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 22
; LENGTH: 373
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-417-820A-22
Query Match 100.0%; Score 1992; DB 4; Length 373;
Best Local Similarity 100.0%; Pred. No. 5e-189;
Matches 373; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 61 LIDDLADGIRSAVCPPEVTLASVRHSSWTSBSALCKIYAFMAVLFCEFAAMFLFCISVT 120
| | | | |
DB 61 LIDDLADGIRSAVCPPEVTLASVRHSSWTSBSALCKIYAFMAVLFCEFAAMFLFCISVT 120
QY 121 RYMAIAHHRFYAKRMTLMTCAVTCMAWTLNVAMAPPPVFDVGTYSKFIREDQCIFEHRY 180
| | | | |
DB 121 RYMAIAHHRFYAKRMTLMTCAVTCMAWTLNVAMAPPPVFDVGTYSKFIREDQCIFEHRY 180
QY 181 FRANDTLGFMMLAVLMAATHAVYKGLLFEYRHRKMKVQVNPVPAISQWTFHGPATQ 240
| | | | |
DB 181 FRANDTLGFMMLAVLMAATHAVYKGLLFEYRHRKMKVQVNPVPAISQWTFHGPATQ 240
QY 241 AAANNIAGRGPMPTLLGIRONGHAASRRLGMDVGVGEKOLGMEFYAITLLFLLMS 300
| | | | |
DB 241 AAANNIAGRGPMPTLLGIRONGHAASRRLGMDVGVGEKOLGMEFYAITLLFLLMS 300
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| | | | |
DB 301 PYIVACYMRFVYKACAVPHRYLATATVWMSFAQAAVNPVPCFLNKKCLTTTHAPCWGT 360
QY 361 GGAPAPREBYCYM 373
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DB 361 GGAPAPREBYCYM 373
RESULT 6
US-10-723-955-22
; Sequence 22, Application US/10723955
; Publication No. US20040110238A1
; GENERAL INFORMATION:
; APPLICANT: Behan, Dominic P.
; APPLICANT: Chalmers, Derek T.
; APPLICANT: Lin, I-Lin
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lehman-Brunisma, Karin
; APPLICANT: Lowitz, Kevin P.
; APPLICANT: Dang, Huong T.
; APPLICANT: Chen, Ruoping
; APPLICANT: Gore, Martin
; APPLICANT: White, Carol
; TITLE OF INVENTION: Constitutively Activated Human G Protein Coupled
; FILE REFERENCE: 7 US29 CON
; CURRENT APPLICATION NUMBER: US/10/723, 955
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: 10/417, 820
; PRIOR FILING DATE: 2003-4-16
; PRIOR APPLICATION NUMBER: 09/416, 760
; PRIOR FILING DATE: 1999-10-12
; PRIOR APPLICATION NUMBER: 09/170, 496
; PRIOR FILING DATE: 1998-10-13
; PRIOR APPLICATION NUMBER: 60/110, 060
; PRIOR FILING DATE: 1998-11-27
; PRIOR APPLICATION NUMBER: 60/120, 416
; PRIOR FILING DATE: 1999-02-16
; PRIOR APPLICATION NUMBER: 60/121, 852
; PRIOR FILING DATE: 1999-02-26
; PRIOR APPLICATION NUMBER: 60/109, 213
; PRIOR FILING DATE: 1998-11-20
; PRIOR APPLICATION NUMBER: 60/123, 944
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123, 945
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123, 948
; PRIOR FILING DATE: 1999-03-12
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 22
; LENGTH: 373
; TYPE: PRT
; ORGANISM: Homo sapiens

US-10-723-955-22

Query Match 100.0%; Score 1992; DB 4; Length 373;
Best Local Similarity 100.0%; Pred. No. 56-189;
Matches 373; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MANTTGPBEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVKERALHKA.PYF 60
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DB 61 LLDLCLADGIRSAVCCPFVLASVRHGSSTFSAISCKIYAFMAVLFCFHA.FMLFCISVT 120
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DB 121 RYMAIAHRRFYAKRMTLMTCAAVICMAWTLISVMAAPPVFDVGTYKFIREEDOCIFEHRY 180
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DB 181 FKANDTLGFMMLAVLMAATHAVYGLLLFEYRHRKMKPVQWVPALISQWTFHGPATGQ 240
QY 241 AAANWJAGRGGMPTLLGIRONGHAASRLLGMDVKGKQLGEMFYAITLLFLLMS 300
DB 241 AAANWJAGRGGMPTLLGIRONGHAASRLLGMDVKGKQLGEMFYAITLLFLLMS 300
QY 301 PYIVACYWRFVYACAVPHRYLATAVWMSPAQAAVNPVFCFLINKDKCLTTHAPCWGT 360
DB 301 PYIVACYWRFVYACAVPHRYLATAVWMSPAQAAVNPVFCFLINKDKCLTTHAPCWGT 360
QY 361 GGAPAREPBYCWM 373
DB 361 GGAPAREPBYCWM 373
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RESULT 7
US-10-782-596-20

* Sequence 20, Application US/10782596
Publication No. US20040137509A1

GENERAL INFORMATION:

APPLICANT: Chen, Ruoping

APPLICANT: Dang, Huang T.

APPLICANT: Liaw, Chen W.

APPLICANT: Lin, I-Lin

TITLE OF INVENTION: Human Orphan G Protein Coupled Receptors

FILE REFERENCE: AREN0050

CURRENT APPLICATION NUMBER: US/10/782,596

CURRENT FILING DATE: 2004-02-19

PRIOR APPLICATION NUMBER: US/09/875,076

PRIOR FILING DATE: 2001-06-06

PRIOR APPLICATION NUMBER: 09/417,044

PRIOR FILING DATE: 1999-10-12

PRIOR APPLICATION NUMBER: 60/120,416

PRIOR FILING DATE: 1999-02-16

PRIOR APPLICATION NUMBER: 60/121,851

PRIOR FILING DATE: 1999-02-26

PRIOR APPLICATION NUMBER: 60/123,946

PRIOR FILING DATE: 1999-03-12

PRIOR APPLICATION NUMBER: 60/123,949

PRIOR FILING DATE: 1999-03-12

PRIOR APPLICATION NUMBER: 60/136,436

PRIOR FILING DATE: 1999-05-28

PRIOR APPLICATION NUMBER: 60/136,437

PRIOR FILING DATE: 1999-05-28

PRIOR APPLICATION NUMBER: 60/136,439

PRIOR FILING DATE: 1999-05-28

PRIOR APPLICATION NUMBER: 60/136,567

PRIOR FILING DATE: 1999-05-28

Remaining Prior Application data removed - See File Wrapper or PALM.

NUMBER OF SEQ ID NOS: 74

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 20

LENGTH: 373

TYPE: PRT
ORGANISM: Homo sapiens
US-10-782-596-20

Query Match 100.0%; Score 1992; DB 4; Length 373;
Best Local Similarity 100.0%; Pred. No. 56-189;
Matches 373; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 MANTTGPBEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVKERALHKA.PYF 60
DB 1 MANTTGPBEVSGALSPPSASAYVKLVLLGLIMCVSLAGNAIISLVKERALHKA.PYF 60
QY 61 LLDLCLADGIRSAVCCPFVLASVRHGSSTFSAISCKIYAFMAVLFCFHA.FMLFCISVT 120
DB 61 LLDLCLADGIRSAVCCPFVLASVRHGSSTFSAISCKIYAFMAVLFCFHA.FMLFCISVT 120
QY 121 RYMAIAHRRFYAKRMTLMTCAAVICMAWTLISVMAAPPVFDVGTYKFIREEDOCIFEHRY 180
DB 121 RYMAIAHRRFYAKRMTLMTCAAVICMAWTLISVMAAPPVFDVGTYKFIREEDOCIFEHRY 180
QY 181 FKANDTLGFMMLAVLMAATHAVYGLLLFEYRHRKMKPVQWVPALISQWTFHGPATGQ 240
DB 181 FKANDTLGFMMLAVLMAATHAVYGLLLFEYRHRKMKPVQWVPALISQWTFHGPATGQ 240
QY 241 AAANWJAGRGGMPTLLGIRONGHAASRLLGMDVKGKQLGEMFYAITLLFLLMS 300
DB 241 AAANWJAGRGGMPTLLGIRONGHAASRLLGMDVKGKQLGEMFYAITLLFLLMS 300
QY 301 PYIVACYWRFVYACAVPHRYLATAVWMSPAQAAVNPVFCFLINKDKCLTTHAPCWGT 360
DB 301 PYIVACYWRFVYACAVPHRYLATAVWMSPAQAAVNPVFCFLINKDKCLTTHAPCWGT 360
QY 361 GGAPAREPBYCWM 373
DB 361 GGAPAREPBYCWM 373
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RESULT 8
US-10-723-955-22

* Sequence 22, Application US/10723955
Publication No. US20050227295A9

GENERAL INFORMATION:

APPLICANT: Behan, Dominic P.

APPLICANT: Chalmers, Derek T.

APPLICANT: Lin, I-Lin

APPLICANT: Liaw, Chen W.

APPLICANT: Lehman-Brunisma, Karin

APPLICANT: Lowitz, Kevin P.

APPLICANT: Dang, Huang T.

APPLICANT: Chen, Ruoping

APPLICANT: Gore, Martin

APPLICANT: White, Carol

TITLE OF INVENTION: Constitutively Activated Human G Protein Coupled

FILE REFERENCE: 7.US29. CON

CURRENT APPLICATION NUMBER: US/10/723,955

CURRENT FILING DATE: 2003-11-26

PRIOR APPLICATION NUMBER: 10/417,820

PRIOR FILING DATE: 2003-4-16

PRIOR APPLICATION NUMBER: 09/416,760

PRIOR FILING DATE: 1999-10-12

PRIOR APPLICATION NUMBER: 09/170,496

PRIOR FILING DATE: 1998-10-13

PRIOR APPLICATION NUMBER: 60/110,060

PRIOR FILING DATE: 1998-11-27

PRIOR APPLICATION NUMBER: 60/120,416

PRIOR FILING DATE: 1999-02-16

PRIOR APPLICATION NUMBER: 60/121,852

PRIOR FILING DATE: 1999-02-26

PRIOR APPLICATION NUMBER: 60/109,213

PRIOR FILING DATE: 1998-11-20

PRIOR APPLICATION NUMBER: 60/123,944

PRIOR FILING DATE: 1999-03-12

;; PRIOR APPLICATION NUMBER: 60/123,945
;; PRIOR FILING DATE: 1999-03-12
;; PRIOR APPLICATION NUMBER: 60/123,948
;; PRIOR FILING DATE: 1999-03-12
;; Remaining prior Application data removed - See file wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 148
;; SOFTWARE: PatentIn version 3.2
;; SEQ ID NO: 22
;; LENGTH: 373
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-10-723-955-22

Query Match 100.0%; Score 1992; DB 5; Length 373;
Best Local Similarity 100.0%; Pred. No. Se-189;
Matches 373; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MANTTGEPEEVSAGLSPPSASAYVKLVLLGLIMCVSLAGNALISLLVTKERALHKAPYYF 60
DB 1 MANTTGEPEEVSAGLSPPSASAYVKLVLLGLIMCVSLAGNALISLLVTKERALHKAPYYF 60
QY 61 LLDLCIADGIRSAVCPFPVLASVRHGSWTFPSALSKKIYAFMAVLFCHAAFMFLFCISVT 120
DB 61 LLDLCIADGIRSAVCPFPVLASVRHGSWTFPSALSKKIYAFMAVLFCHAAFMFLFCISVT 120
QY 121 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLISVMAAPPVFDVGTGKFIREDQCIFEHRX 180
DB 121 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLISVMAAPPVFDVGTGKFIREDQCIFEHRX 180
QY 181 FRANDTLGFMLMLAVMAATHAIVYGKLLFEYRHRKMKPVQWNPVPAISQWTFHGPATGQ 240
DB 181 FRANDTLGFMLMLAVMAATHAIVYGKLLFEYRHRKMKPVQWNPVPAISQWTFHGPATGQ 240
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DB 241 AAANNIAGRGMPPTLLGIRONGHAASRLLGMDVKGKQLGDMFYAITLLFLFLMS 300
QY 301 PYIVACYWRVFYKACAVPHRYLATAVMMSFAQAAVNPVFCFLINDKCLKLTTHAPCWGT 360
DB 301 PYIVACYWRVFYKACAVPHRYLATAVMMSFAQAAVNPVFCFLINDKCLKLTTHAPCWGT 360
QY 361 GGAPAPREPYCYM 373
DB 361 GGAPAPREPYCYM 373

RESULT 9
US-10-318-142-6
; Sequence 6, Application US/10318142
; Publication No. US20030077662A1
; GENERAL INFORMATION:
; APPLICANT: Yamanouchi Pharmaceutical Co., Ltd.
; TITLE OF INVENTION: A novel G protein coupled receptor protein
; FILE REFERENCE: Y9905
; CURRENT APPLICATION NUMBER: US/10/318,142
; CURRENT FILING DATE: 2002-12-13
; PRIOR APPLICATION NUMBER: US/09/622,439
; PRIOR FILING DATE: 2000-08-17
; PRIOR APPLICATION NUMBER: JP P1998-060245
; PRIOR FILING DATE: 1998-03-12
; PRIOR APPLICATION NUMBER: JP P1999-026774
; PRIOR FILING DATE: 1999-02-03
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 6
; LENGTH: 373
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-318-142-6

Query Match 99.7%; Score 1986; DB 4; Length 373;
Best Local Similarity 99.7%; Pred. No. 2e-188;
Matches 372; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MANTTGEPEEVSAGLSPPSASAYVKLVLLGLIMCVSLAGNALISLLVTKERALHKAPYYF 60
DB 1 MANTTGEPEEVSAGLSPPSASAYVKLVLLGLIMCVSLAGNALISLLVTKERALHKAPYYF 60
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DB 61 LLDLCIADGIRSAVCPFPVLASVRHGSWTFPSALSKKIYAFMAVLFCHAAFMFLFCISVT 120
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DB 121 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLISVMAAPPVFDVGTGKFIREDQCIFEHRX 180
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DB 181 FRANDTLGFMLMLAVMAATHAIVYGKLLFEYRHRKMKPVQWNPVPAISQWTFHGPATGQ 240
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DB 241 AAANNIAGRGMPPTLLGIRONGHAASRLLGMDVKGKQLGDMFYAITLLFLFLMS 300
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DB 301 PYIVACYWRVFYKACAVPHRYLATAVMMSFAQAAVNPVFCFLINDKCLKLTTHAPCWGT 360
QY 361 GGAPAPREPYCYM 373
DB 361 GGAPAPREPYCYM 373

RESULT 10
US-10-225-567A-615
; Sequence 615, Application US/10225567A
; Publication No. US20030113798A1
; GENERAL INFORMATION:
; APPLICANT: Lifespan Biosciences
; APPLICANT: Brown, Joseph P.
; APPLICANT: Burnet, Glenna C.
; APPLICANT: Roush, Christine L.
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTOR
; FILE REFERENCE: 1920-4-4
; CURRENT APPLICATION NUMBER: US/10/225,567A
; CURRENT FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 60/257,144
; PRIOR FILING DATE: 2000-12-19
; NUMBER OF SEQ ID NOS: 2292
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 615
; LENGTH: 373
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-225-567A-615

Query Match 99.7%; Score 1986; DB 4; Length 373;
Best Local Similarity 99.7%; Pred. No. 2e-188; 1; Indels 0; Gaps 0;
Matches 372; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MANTTGEPEEVSAGLSPPSASAYVKLVLLGLIMCVSLAGNALISLLVTKERALHKAPYYF 60
DB 1 MANTTGEPEEVSAGLSPPSASAYVKLVLLGLIMCVSLAGNALISLLVTKERALHKAPYYF 60
QY 61 LLDLCIADGIRSAVCPFPVLASVRHGSWTFPSALSKKIYAFMAVLFCHAAFMFLFCISVT 120
DB 61 LLDLCIADGIRSAVCPFPVLASVRHGSWTFPSALSKKIYAFMAVLFCHAAFMFLFCISVT 120
QY 121 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLISVMAAPPVFDVGTGKFIREDQCIFEHRX 180
DB 121 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLISVMAAPPVFDVGTGKFIREDQCIFEHRX 180
QY 181 FRANDTLGFMLMLAVMAATHAIVYGKLLFEYRHRKMKPVQWNPVPAISQWTFHGPATGQ 240
DB 181 FRANDTLGFMLMLAVMAATHAIVYGKLLFEYRHRKMKPVQWNPVPAISQWTFHGPATGQ 240

QY	241	AAANNIAGRGPRMPTLLIGIRONGHAASBRLLGMBEVGEXKOLGMPAYITLLPILWMS	300
Db	241	AAANNIAGRGPRMPTLLIGIRONGHAASBRLLGMBEVGEXKOLGMPAYITLLPILWMS	300
QY	301	PITYACYMRVFPKACAVPHRYLATAYWMSPAOAAVNPICFLNKOLKKCLTTHAPCWT	360
Db	301	PITYACYMRVFPKACAVPHRYLATAYWMSPAOAAVNPICFLNKOLKKCLTTHAPCWT	360
QY	361	GGAPAPREBYCYM	373
Db	361	GGAPAPREBYCYM	373

```

RESULT 11
US-10-788-197-59
: Sequence 59, Application US/10788197
: Publication No. US20050032125A1
: GENERAL INFORMATION:
: APPLICANT: OAKLEY, ROBERT H.
: APPLICANT: HUDSON, CHRISTINE C.
: TITLE OF INVENTION: CONSTITUTIVELY TRANSLLOCATING CELL LINE
: FILE REFERENCE: NRX. 108
: CURRENT APPLICATION NUMBER: US/10/788, 197
: CURRENT FILING DATE: 2004-02-26
: PRIOR APPLICATION NUMBER: PCT/US03/14581
: PRIOR FILING DATE: 2003-05-12
: PRIOR APPLICATION NUMBER: 60/379, 986
: PRIOR FILING DATE: 2002-05-13
: PRIOR APPLICATION NUMBER: 60/401,698
: PRIOR FILING DATE: 2002-08-07
: NUMBER OF SEQ ID NOS: 94
: SOFTWARE: PatentIn Ver. 3.2
: SEQ ID NO 59
: LENGTH: 373
: TYPE: prt
: ORGANISM: Homo sapiens
US-10-788-197-59

```

Query Match	99.7%	Score 1986;	DB 5;	Length 373;
Best Local Similarity	99.7%	Pred. No. 2e-188;		
Matches 372;	Conservative	0;	Mismatches 1;	Indels 0;
				Gaps 0;

Qy	1	MAANTGEPREVSALSPSASAVYKVLVLGLIWCBSLAGNALISLVIKERALHKKPYE	60
Db	1	MAANTGEPREVSALSPSASAVYKVLVLGLIWCBSLAGNALISLVIKERALHKKPYE	60
Qy	61	LIDLCLADISRSAVCEPFYTLASVRHSSWTFPSALSKIAVAFNAVLCEFHAFMLFCISVT	120
Db	61	LIDLCLADISRSAVCEPFYTLASVRHSSWTFPSALSKIAVAFNAVLCEFHAFMLFCISVT	120
Qy	121	RYMALAHNRFYAKRMTLMTCAAVICMAWTLVSMAAPPVYFVDVGYKFIREDOCIIEHRY	180
Db	121	RYMALAHNRFYAKRMTLMTCAAVICMAWTLVSMAAPPVYFVDVGYKFIREDOCIIEHRY	180
Qy	181	FLAUNTTLGMLMLAVLMAATHAVYGLLLFEYHRHKKPVQWPAISQWTFHGPATGQ	240
Db	181	FLAUNTTLGMLMLAVLMAATHAVYGLLLFEYHRHKKPVQWPAISQWTFHGPATGQ	240
Qy	241	AAANMIAGGRGPMPTLLGIRONGHAASRLLGMBDEVKGEKOLGMMFYAITLLFLLIWS	300
Db	241	AAANMIAGGRGPMPTLLGIRONGHAASRLLGMBDEVKGEKOLGMMFYAITLLFLLIWS	300
Qy	301	PVIYACYWRVFYKACAVPRRYLATAVMSPQAQAAVNPVICFLLNKDILKKCLTTTHAPCWGT	360
Db	301	PVIYACYWRVFYKACAVPRRYLATAVMSPQAQAAVNPVICFLLNKDILKKCLTTTHAPCWGT	360
Qy	361	GGAPAPREPYCWM 373	
Db	361	GGAPAPREPYCWM 373	

RESULT 12
US-10-898-329-6

```

Sequence 6, Application US/10899329
Publication NO. US20050042683A1
GENERAL INFORMATION:
APPLICANT: Yamnouchi Pharmaceutical Co., Ltd.
TITLE OF INVENTION: A novel G protein coupled receptor protein
FILE REFERENCE: Y9905
CURRENT APPLICATION NUMBER: US/10/898,329
CURRENT FILING DATE: 2004-07-26
PRIOR APPLICATION NUMBER: US/10/318,142
PRIOR FILING DATE: 2002-12-13
PRIOR APPLICATION NUMBER: US/09/622,439
PRIOR FILING DATE: 2000-08-17
PRIOR APPLICATION NUMBER: JP P1998-060245
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: JP P1999-026774
PRIOR FILING DATE: 1999-02-03
NUMBER OF SEQ ID NOS: 26
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 6
LENGTH: 373
TYPE: PRT
ORGANISM: Homo sapiens
US-10-898-329-6

```

Query Match	99.7%	Score 1986;	DB 5;	Length 373;
Best Local Similarity	99.7%	Pred. No. 2e-18;		
Matches 372; Conservative	0;	Mismatches 1;	Indels 0;	Gaps 0;

Qy	1	MAANTGEEBEEVSGALSPSASAYVVLVLGLIMCVSLAGNALISLVLKERALHKRPYF	60
Db	1	MAANTGEBEEVSGALSPSPSASAYVVLVLGLIMCVSLAGNALISLVLKERALHKRPYF	60
Qy	61	LLDLCIADGIRSAVCFPPVLASVRRGSSWTSFALSCKIYAFMAVILCFPHAAFMFCISVT	120
Db	61	LLDLCIADGIRSAVCFPPVLASVRRGSSWTSFALSCKIYAFMAVILCFPHAAFMFCISVT	120
Qy	121	RYMAIAHHRFAKRWTLMTCAAVICMAWTLISVAMAAPPFVDTGYTKYFIREBOCIEHRY	180
Db	121	RYMAIAHHRFAKRWTLMTCAAVICMAWTLISVAMAAPPFVDTGYTKYFIREBOCIEHRY	180
Qy	181	EKADDTLGFPMMLAVLMAATHAVVYKLLFEYRHRKMKPVQVNPVPSQWTHFGPATQ	240
Db	181	EKADDTLGFPMMLAVLMAATHAVVYKLLFEYRHRKMKPVQVNPVPSQWTHFGPATQ	240
Qy	241	AAANWIAFGRGPMPTLLGIRONGHAASRLLIGMDEVYGEKOLGRMFAYITLLFLLWS	300
Db	241	AAANWIAFGRGPMPTLLGIRONGHAASRLLIGMDEVYGEKOLGRMFAYITLLFLLWS	300
Qy	301	PYIVACYWRVFVKACAVBHRYLATAVMWSFAQAAVNPIVCFLLNKDLKKCLTTHAPCWGT	360
Db	301	PYIVACYWRVFVKACAVBHRYLATAVMWSFAQAAVNPIVCFLLNKDLKKCLTTHAPCWGT	360
Qy	361	GGAPAPREPYCVM 373	
Db	361	GGAPAPREPYCVM 373	

```

RESULT 13
US-10-073-885-77
; Sequence 77, Application US/10073885
; Publication No. US20030096346A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: P20031
; CURRENT APPLICATION NUMBER: US/10/073,885
; CURRENT FILING DATE: 2002-02-14
; Prior Application removed - See file Wrapper or Palm
; NUMBER OF SEQ ID NOS: 116
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 77
; LENGTH: 378
; TYPE: PRT

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ORGANISM: Homo sapiens
US-10-073-885-77

Query Match 99.7%; Score 1986; DB 4; Length 378;
Best Local Similarity 99.7%; Pred. No. 26-188;
Matches 372; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MANTTGEPEVSGALSPSPASAYVKLVLLGLIMCVSLAGNALISLVKERALHKAAPYF 60
DB 6 MANTTGEPEVSGALSPSPASAYVKLVLLGLIMCVSLAGNALISLVKERALHKAAPYF 65
QY 61 LLDLCLADGIRSAVCFPFVLASVRHGSWTFSAISCKIYAFMAVLFCEFAAFMLFCISVT 120
DB 66 LLDLCLADGIRSAVCFPFVLASVRHGSWTFSAISCKIYAFMAVLFCEFAAFMLFCISVT 125
QY 121 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLISVAMAPPPVDVGYKFIREDQCIFEHRX 180
DB 126 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLISVAMAPPPVDVGYKFIREDQCIFEHRX 185
QY 181 FRANDTLGFMLMLAVMAATHAVYKLLLFYRHRKMKVQWVPALISQWTFHGPATGQ 240
DB 186 FRANDTLGFMLMLAVMAATHAVYKLLLFYRHRKMKVQWVPALISQWTFHGPATGQ 245
QY 241 AAANNIAGFGRGMPPTLLGIRONGHAASRRLGMDVEVGEKQIGRMFYAITLLFLLMS 300
DB 246 AAANNIAGFGRGMPPTLLGIRONGHAASRRLGMDVEVGEKQIGRMFYAITLLFLLMS 305
QY 301 PYIVACYMRFVYKACAVPHRYLATATVWMSFAQAAVNPVFCFLNKLKKCLTTHAPCWGT 360
DB 306 PYIVACYMRFVYKACAVPHRYLATATVWMSFAQAAVNPVFCFLNKLKKCLTTHAPCWGT 365
QY 361 GGAPAREPYCWM 373
DB 366 GGAPAREPYCWM 378

RESULT 14
US-10-788-197-61

/ Sequence 61, Application US/10788197
/ Publication No. US20050032125A1
/ GENERAL INFORMATION:
/ APPLICANT: OAKLEY, ROBERT H.
/ APPLICANT: HUDSON, CHRISTINE C.
/ TITLE OF INVENTION: CONSTITUTIVELY TRANSLOCATING CELL LINE
/ FILE REFERENCE: NRK.108
/ CURRENT FILING DATE: 2004-02-26
/ PRIOR APPLICATION NUMBER: US/10/788,197
/ PRIOR FILING DATE: 2003-05-12
/ PRIOR APPLICATION NUMBER: 60/379,986
/ PRIOR FILING DATE: 2002-05-13
/ PRIOR APPLICATION NUMBER: 60/401,698
/ PRIOR FILING DATE: 2002-08-07
/ NUMBER OF SEQ ID NOS: 94
/ SOFTWARE: PatentIn Ver. 3.2
/ SEQ ID NO 61
/ LENGTH: 387
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-788-197-61

Query Match 99.7%; Score 1986; DB 5; Length 387;
Best Local Similarity 99.7%; Pred. No. 2,1e-188;
Matches 372; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MANTTGEPEVSGALSPSPASAYVKLVLLGLIMCVSLAGNALISLVKERALHKAAPYF 60
DB 15 MANTTGEPEVSGALSPSPASAYVKLVLLGLIMCVSLAGNALISLVKERALHKAAPYF 74
QY 61 LLDLCLADGIRSAVCFPFVLASVRHGSWTFSAISCKIYAFMAVLFCEFAAFMLFCISVT 120
DB 75 LLDLCLADGIRSAVCFPFVLASVRHGSWTFSAISCKIYAFMAVLFCEFAAFMLFCISVT 134

QY 121 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLISVAMAPPPVDVGYKFIREDQCIFEHRX 180
DB 135 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLISVAMAPPPVDVGYKFIREDQCIFEHRX 194
QY 181 FRANDTLGFMLMLAVMAATHAVYKLLLFYRHRKMKVQWVPALISQWTFHGPATGQ 240
DB 195 FRANDTLGFMLMLAVMAATHAVYKLLLFYRHRKMKVQWVPALISQWTFHGPATGQ 254
QY 241 AAANNIAGFGRGMPPTLLGIRONGHAASRRLGMDVEVGEKQIGRMFYAITLLFLLMS 300
DB 255 AAANNIAGFGRGMPPTLLGIRONGHAASRRLGMDVEVGEKQIGRMFYAITLLFLLMS 314
QY 301 PYIVACYMRFVYKACAVPHRYLATATVWMSFAQAAVNPVFCFLNKLKKCLTTHAPCWGT 360
DB 315 PYIVACYMRFVYKACAVPHRYLATATVWMSFAQAAVNPVFCFLNKLKKCLTTHAPCWGT 374
QY 361 GGAPAREPYCWM 373
DB 375 GGAPAREPYCWM 387

RESULT 15
US-10-505-486-49

/ Sequence 49, Application US/10505486
/ Publication No. US20050118639A1
/ GENERAL INFORMATION:
/ APPLICANT: Takeda Chemical Industries, Ltd.
/ TITLE OF INVENTION: Determination of a ligand
/ FILE REFERENCE: P03-0006PCT
/ CURRENT FILING DATE: 2004-08-20
/ PRIOR APPLICATION NUMBER: JP 2002-45728
/ PRIOR FILING DATE: 2002-02-22
/ PRIOR APPLICATION NUMBER: JP 2002-213949
/ PRIOR FILING DATE: 2002-07-23
/ PRIOR APPLICATION NUMBER: JP 2002-298237
/ PRIOR FILING DATE: 2002-10-11
/ NUMBER OF SEQ ID NOS: 233
/ SEQ ID NO 49
/ LENGTH: 611
/ TYPE: PRT
/ ORGANISM: Human
US-10-505-486-49

Query Match 99.7%; Score 1986; DB 5; Length 611;
Best Local Similarity 99.7%; Pred. No. 3.6e-188;
Matches 372; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MANTTGEPEVSGALSPSPASAYVKLVLLGLIMCVSLAGNALISLVKERALHKAAPYF 60
DB 1 MANTTGEPEVSGALSPSPASAYVKLVLLGLIMCVSLAGNALISLVKERALHKAAPYF 60
QY 61 LLDLCLADGIRSAVCFPFVLASVRHGSWTFSAISCKIYAFMAVLFCEFAAFMLFCISVT 120
DB 61 LLDLCLADGIRSAVCFPFVLASVRHGSWTFSAISCKIYAFMAVLFCEFAAFMLFCISVT 120
QY 121 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLISVAMAPPPVDVGYKFIREDQCIFEHRX 180
DB 121 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLISVAMAPPPVDVGYKFIREDQCIFEHRX 180
QY 181 FRANDTLGFMLMLAVMAATHAVYKLLLFYRHRKMKVQWVPALISQWTFHGPATGQ 240
DB 181 FRANDTLGFMLMLAVMAATHAVYKLLLFYRHRKMKVQWVPALISQWTFHGPATGQ 240
QY 241 AAANNIAGFGRGMPPTLLGIRONGHAASRRLGMDVEVGEKQIGRMFYAITLLFLLMS 300
DB 241 AAANNIAGFGRGMPPTLLGIRONGHAASRRLGMDVEVGEKQIGRMFYAITLLFLLMS 300
QY 301 PYIVACYMRFVYKACAVPHRYLATATVWMSFAQAAVNPVFCFLNKLKKCLTTHAPCWGT 360
DB 301 PYIVACYMRFVYKACAVPHRYLATATVWMSFAQAAVNPVFCFLNKLKKCLTTHAPCWGT 360
QY 361 GGAPAREPYCWM 373

Db 361 CGAPAPRBPYCM 373

Search completed: March 7, 2006, 12:58:41
Job time : 167 secs

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Db 241 AANWTAGGCGMPPTLLGIRONGHAASRLLGMDVEVGEKOLGMPFAITLLFLLMS 300
Qy 301 PYIVACYWRFVYKACVPHRYLATATVWMSFAQAAVNPVYVCFLLNKKLCTTHACWGT 360
Db 301 PYIVACYWRFVYKACVPHRYLATATVWMSFAQAAVNPVYVCFLLNKKLCTTHACWGT 360
Qy 361 GGAPAREPYCWM 373
Db 361 GGAPAREPYCWM 373

RESULT 2

US-11-040-218-61
; Sequence 61, Application US/11040218
; Publication No. US20060029983A1
; GENERAL INFORMATION:
; APPLICANT: OAKLEY, ROBERT H.
; APPLICANT: HUDSON, CHRISTINE C.
; TITLE OF INVENTION: CONSTITUTIVELY TRANSLOCATING CELL LINE
; FILE REFERENCE: NRK.108
; CURRENT APPLICATION NUMBER: US/11/040,218
; CURRENT FILING DATE: 2005-01-21
; PRIOR APPLICATION NUMBER: US/10/788,197
; PRIOR FILING DATE: 2004-02-26
; PRIOR APPLICATION NUMBER: PCT/US03/14581
; PRIOR FILING DATE: 2003-05-12
; PRIOR APPLICATION NUMBER: 60/379,986
; PRIOR FILING DATE: 2002-05-13
; PRIOR APPLICATION NUMBER: 60/401,698
; PRIOR FILING DATE: 2002-08-07
; NUMBER OF SEQ ID NOS: 94
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 61
; LENGTH: 387
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-040-218-61

Query Match 99.7%; Score 1986; DB 7; Length 387;

Best Local Similarity 99.7%; Pred. No. 1,1e-184; Mismatches 1; Indels 0; Gaps 0;

Matches 372; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MANTTGEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNALISLVLKERALHKAPYF 60
Db 15 MANTTGEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNALISLVLKERALHKAPYF 74
Qy 61 LLDLCIADGIRSAVCEPFLASVRHSSWTFSSALCKIYAFMAVLCFHAAPMLFCISVT 120
Db 75 LLDLCIADGIRSAVCEPFLASVRHSSWTFSSALCKIYAFMAVLCFHAAPMLFCISVT 134
Qy 121 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLVMAAPPPVDVGYTFIREDDCIFEHR 180
Db 135 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLVMAAPPPVDVGYTFIREDDCIFEHR 194
Qy 181 FKANDTLGFMMLAVMAATHAAYYKLLLFYRHRKMKVQWPAISQWTFHGPATQ 240
Db 195 FKANDTLGFMMLAVMAATHAAYYKLLLFYRHRKMKVQWPAISQWTFHGPATQ 254
Qy 241 AANWTAGGCGMPPTLLGIRONGHAASRLLGMDVEVGEKOLGMPFAITLLFLLMS 300
Db 255 AANWTAGGCGMPPTLLGIRONGHAASRLLGMDVEVGEKOLGMPFAITLLFLLMS 314
Qy 301 PYIVACYWRFVYKACVPHRYLATATVWMSFAQAAVNPVYVCFLLNKKLCTTHACWGT 360
Db 315 PYIVACYWRFVYKACVPHRYLATATVWMSFAQAAVNPVYVCFLLNKKLCTTHACWGT 374
Qy 361 GGAPAREPYCWM 373
Db 375 GGAPAREPYCWM 387

RESULT 3

US-11-040-218-63
; Sequence 63, Application US/11040218
; Publication No. US20060029983A1
; GENERAL INFORMATION:
; APPLICANT: OAKLEY, ROBERT H.
; APPLICANT: HUDSON, CHRISTINE C.
; TITLE OF INVENTION: CONSTITUTIVELY TRANSLOCATING CELL LINE
; FILE REFERENCE: NRK.108
; CURRENT APPLICATION NUMBER: US/11/040,218
; CURRENT FILING DATE: 2005-01-21
; PRIOR APPLICATION NUMBER: US/10/788,197
; PRIOR FILING DATE: 2004-02-26
; PRIOR APPLICATION NUMBER: PCT/US03/14581
; PRIOR FILING DATE: 2003-05-12
; PRIOR APPLICATION NUMBER: 60/379,986
; PRIOR FILING DATE: 2002-05-13
; PRIOR APPLICATION NUMBER: 60/401,698
; PRIOR FILING DATE: 2002-08-07
; NUMBER OF SEQ ID NOS: 94
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 63
; LENGTH: 388
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-040-218-63

Query Match 95.0%; Score 1893; DB 7; Length 388;

Best Local Similarity 97.8%; Pred. No. 1,1e-175; Mismatches 8; Indels 0; Gaps 0;

Matches 358; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 1 MANTTGEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNALISLVLKERALHKAPYF 60
Db 1 MANTTGEPEVSGALSPPSASAYVKLVLLGLIMCVSLAGNALISLVLKERALHKAPYF 60
Qy 61 LLDLCIADGIRSAVCEPFLASVRHSSWTFSSALCKIYAFMAVLCFHAAPMLFCISVT 120
Db 61 LLDLCIADGIRSAVCEPFLASVRHSSWTFSSALCKIYAFMAVLCFHAAPMLFCISVT 120
Qy 121 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLVMAAPPPVDVGYTFIREDDCIFEHR 180
Db 121 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLVMAAPPPVDVGYTFIREDDCIFEHR 180
Qy 181 FKANDTLGFMMLAVMAATHAAYYKLLLFYRHRKMKVQWPAISQWTFHGPATQ 240
Db 181 FKANDTLGFMMLAVMAATHAAYYKLLLFYRHRKMKVQWPAISQWTFHGPATQ 240
Qy 241 AANWTAGGCGMPPTLLGIRONGHAASRLLGMDVEVGEKOLGMPFAITLLFLLMS 300
Db 241 AANWTAGGCGMPPTLLGIRONGHAASRLLGMDVEVGEKOLGMPFAITLLFLLMS 300
Qy 301 PYIVACYWRFVYKACVPHRYLATATVWMSFAQAAVNPVYVCFLLNKKLCTTHACWGT 360
Db 301 PYIVACYWRFVYKACVPHRYLATATVWMSFAQAAVNPVYVCFLLNKKLCTTHACWGT 360
Qy 361 GGAPAP 366
Db 361 RGRTTP 366

RESULT 4

US-11-040-218-65
; Sequence 65, Application US/11040218
; Publication No. US20060029983A1
; GENERAL INFORMATION:
; APPLICANT: OAKLEY, ROBERT H.
; APPLICANT: HUDSON, CHRISTINE C.
; TITLE OF INVENTION: CONSTITUTIVELY TRANSLOCATING CELL LINE
; FILE REFERENCE: NRK.108
; CURRENT APPLICATION NUMBER: US/11/040,218
; CURRENT FILING DATE: 2005-01-21
; PRIOR APPLICATION NUMBER: US/10/788,197
; PRIOR FILING DATE: 2004-02-26
; PRIOR APPLICATION NUMBER: PCT/US03/14581

PRIOR FILING DATE: 2003-05-12
 PRIOR APPLICATION NUMBER: 60/379,986
 PRIOR FILING DATE: 2002-05-13
 PRIOR APPLICATION NUMBER: 60/401,698
 PRIOR FILING DATE: 2002-08-07
 NUMBER OF SEQ ID NOS: 94
 SOFTWARE: Patentin Ver. 3.2
 SEQ ID NO 65
 LENGTH: 402
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-11-040-218-65

Query Match 95.0%; Score 1893; DB 7; Length 402;
 Best Local Similarity 97.8%; Pred. No. 1.1e-175;
 Matches 358; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MANTGEPREVSALSPSPASAYVKLVLLGLIMCVSLAGNAIISLVKERALHKAAPYF 60
 DB 15 MANTGEPREVSALSPSPASAYVKLVLLGLIMCVSLAGNAIISLVKERALHKAAPYF 74
 QY 61 LLDLCLADGIRSAVCPFPVLASVRHGSSTFSAISCKIYAFMAVLFCHFAAFMLFCISVT 120
 DB 75 LLDLCLADGIRSAVCPFPVLASVRHGSSTFSAISCKIYAFMAVLFCHFAAFMLFCISVT 134
 QY 121 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLVMAAPFPVFDVGTYKFIREDQCIFEHRY 180
 DB 135 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLVMAAPFPVFDVGTYKFIREDQCIFEHRY 194
 QY 181 FRANDTLGFMMLAVLMAAETHAVYKLLPEYRHRKRVQVPAISQWTFHGPAGATQ 240
 DB 195 FRANDTLGFMMLAVLMAAETHAVYKLLPEYRHRKRVQVPAISQWTFHGPAGATQ 254
 QY 241 AAANWTAGRGMPPTLLGIRONGHAASRLIGMDEVKGEKOLGMPFAITTLPLLLWS 300
 DB 255 AAANWTAGRGMPPTLLGIRONGHAASRLIGMDEVKGEKOLGMPFAITTLPLLLWS 314
 QY 301 PYIVACYRVFVAKACVPHRYLATAYMMSFAQAAVNPVFCFLNKLKCLTTTHAPCWGT 360
 DB 315 PYIVACYRVFVAKACVPHRYLATAYMMSFAQAAVNPVFCFLNKLKCLTTTHAPCAAA 374
 QY 361 GGAPAP 366
 DB 375 RGRTTP 380

RESULT 5
 US-11-040-218-67
 Sequence 67, Application US/11040218
 Publication No. US20060029983A1

GENERAL INFORMATION:
 APPLICANT: OAKLEY, ROBERT H.
 APPLICANT: HUDSON, CHRISTINE C.
 TITLE OF INVENTION: CONSTITUTIVELY TRANSLOCATING CELL LINE
 FILE REFERENCE: NRK.108
 CURRENT APPLICATION NUMBER: US/11/040,218
 CURRENT FILING DATE: 2005-01-21
 PRIOR APPLICATION NUMBER: US/10/788,197
 PRIOR FILING DATE: 2004-02-26
 PRIOR APPLICATION NUMBER: PCT/US03/14581
 PRIOR FILING DATE: 2003-05-12
 PRIOR APPLICATION NUMBER: 60/379,986
 PRIOR FILING DATE: 2002-05-13
 PRIOR APPLICATION NUMBER: 60/401,698
 PRIOR FILING DATE: 2002-08-07
 NUMBER OF SEQ ID NOS: 94
 SOFTWARE: Patentin Ver. 3.2
 SEQ ID NO 67
 LENGTH: 370
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-11-040-218-67

Query Match 64.7%; Score 1288.5; DB 7; Length 370;
 Best Local Similarity 62.7%; Pred. No. 3.4e-117;
 Matches 235; Conservative 56; Mismatches 77; Indels 7; Gaps 4;

QY 1 MANTGEPREVSALSPSPASAYVKLVLLGLIMCVSLAGNAIISLVKERALHKAAPYF 60
 DB 1 MANTGEPREVSALSPSPASAYVKLVLLGLIMCVSLAGNAIISLVKERALHKAAPYF 58
 QY 61 LLDLCLADGIRSAVCPFPVLASVRHGSSTFSAISCKIYAFMAVLFCHFAAFMLFCISVT 120
 DB 59 LLDLCCSDILRSATCPFPVNSVKNGSTWYGTCTCKVIAFLGVLSCFHTAFLFCISVT 118
 QY 121 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLVMAAPFPVFDVGTYKFIREDQCIFEHRY 180
 DB 119 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLVMAAPFPVFDVGTYKFIREDQCIFEHRY 178
 QY 181 FRANDTLGFMMLAVLMAAETHAVYKLLPEYRHRKRVQVPAISQWTFHGPAGATQ 240
 DB 179 FRANDTLGFMMLAVLMAAETHAVYKLLPEYRHRKRVQVPAISQWTFHGPAGATQ 238
 QY 241 AAANWTAGRGMPPTLLGIRONGHAASRLIGMDEVKGEKOLGMPFAITTLPLLLWS 299
 DB 239 AAANWTAGRGMPPTLLGIRONGHAASRLIGMDEVKGEKOLGMPFAITTLPLLLWS 298
 QY 300 SPYIVACYRVFVAKACVPHRYLATAYMMSFAQAAVNPVFCFLNKLKCLTTTHAPCWGT 358
 DB 299 SPYIVACYRVFVAKACVPHRYLATAYMMSFAQAAVNPVFCFLNKLKCLTTTHAPCWGT 357
 QY 359 GTGAPAPREPYCVM 373
 DB 358 --RKSRLPREPYCVI 370

RESULT 6
 US-11-040-218-69
 Sequence 69, Application US/11040218
 Publication No. US20060029983A1
 GENERAL INFORMATION:
 APPLICANT: OAKLEY, ROBERT H.
 APPLICANT: HUDSON, CHRISTINE C.
 TITLE OF INVENTION: CONSTITUTIVELY TRANSLOCATING CELL LINE
 FILE REFERENCE: NRK.108
 CURRENT APPLICATION NUMBER: US/11/040,218
 CURRENT FILING DATE: 2005-01-21
 PRIOR APPLICATION NUMBER: US/10/788,197
 PRIOR FILING DATE: 2004-02-26
 PRIOR APPLICATION NUMBER: PCT/US03/14581
 PRIOR FILING DATE: 2003-05-12
 PRIOR APPLICATION NUMBER: 60/379,986
 PRIOR FILING DATE: 2002-05-13
 PRIOR APPLICATION NUMBER: 60/401,698
 PRIOR FILING DATE: 2002-08-07
 NUMBER OF SEQ ID NOS: 94
 SOFTWARE: Patentin Ver. 3.2
 SEQ ID NO 69
 LENGTH: 384
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-11-040-218-69

Query Match 64.7%; Score 1288.5; DB 7; Length 384;
 Best Local Similarity 62.7%; Pred. No. 3.5e-117;
 Matches 235; Conservative 56; Mismatches 77; Indels 7; Gaps 4;

QY 1 MANTGEPREVSALSPSPASAYVKLVLLGLIMCVSLAGNAIISLVKERALHKAAPYF 60
 DB 15 MANTGEPREVSALSPSPASAYVKLVLLGLIMCVSLAGNAIISLVKERALHKAAPYF 72
 QY 61 LLDLCLADGIRSAVCPFPVLASVRHGSSTFSAISCKIYAFMAVLFCHFAAFMLFCISVT 120
 DB 73 LLDLCCSDILRSATCPFPVNSVKNGSTWYGTCTCKVIAFLGVLSCFHTAFLFCISVT 132
 QY 121 RYMAIAHHRFYAKRMTLMTCAAVICMAWTLVMAAPFPVFDVGTYKFIREDQCIFEHRY 180

Db	133	RYATAAHRRFYTKLTFEFTCLAVICWMTLSAAAFPEVLVDVGITSPFREDDOCTFOHRS	192
Qy	181	EKANDTLGEMLMIAVMAATTHAVYGKLLFEYRHRKMKPVOMPAISONTTFHGPGATGQ	240
Db	193	FRANDSIGFPLMLAALLILATOLVLYKLIFEVDRRKMKEPVGFVAAVSOMTFHOBGASGQ	252
Qy	241	AAANWIAFGFGFMPPELTLLGIRONGHMAS-RRLLGMDEVKGEKOLGRMFYATLLPILLW	299
Db	253	AAANWIAFGFGFPTPTLLGIRONATTTORRRLLVDEFGKMKRISRMFYIMTFLPILLW	312
Qy	300	SPYIVACYMWVPEFKACAVPHRYATATVWMSFPOAAVNPVJCEFLNKDKJCL-FTTHAPCW	358
Db	313	GPIIVACYMWVPEFKAVPEVPGFLLTAAVMMSFPOAGINPVYCIFSRRELRRCSFTLLLYC-	371
Qy	359	GTCGAPAPREPYCYM	373
Db	372	--RKSRLLPREPYCVI	384

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RESULT 7
US-11-040-218-71
; Sequence 71, Application US/11040218
; Publication No. US20060029983A1
; GENERAL INFORMATION:
; APPLICANT: OAKLEY, ROBERT H.
; APPLICANT: HUDSON, CHRISTINE C.
; TITLE OF INVENTION: CONSTITUTIVELY TRANSLOCATING CELL LINE
; FILE REFERENCE: NRK.108
; CURRENT APPLICATION NUMBER: US/11/040,218
; CURRENT FILING DATE: 2005-01-21
; PRIOR APPLICATION NUMBER: US/10/788,197
; PRIOR FILING DATE: 2004-02-26
; PRIOR APPLICATION NUMBER: PCT/US903/14581
; PRIOR FILING DATE: 2003-05-12
; PRIOR APPLICATION NUMBER: 60/379,986
; PRIOR FILING DATE: 2002-05-13
; PRIOR APPLICATION NUMBER: 60/401,698
; PRIOR FILING DATE: 2002-08-07
; NUMBER OF SEQ ID NOS: 94
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 71
; LENGTH: 388
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-040-218-71

```

```

Query Match 388; 63.6%; Score 1266; DB 7 length 388;
Base Local Similarity 62.5%; Pred. No. 5 4e-115;
Match 230; Conservative 54; Mismatches 80; Indels 4; Gaps 3

QY 1 MANTTGEDEVEGSLPPSASAYVTKVLGLIMCVSLAGNALISLTVKERALHKAPYF 60
DB 1 MANNYSHADNIIQLNLS- LTFALFKLITSIGFIQSVGNLIIISLTVKDLTHAPYF 58
QY 61 LIDLCLADGIRAVCPFPVLASVVRGSSMTFELSCKIVAFNAVLFCHFAFMFCISYV 120
DB 59 LIDLCCSDILRSIAICFPFVFNVSXKGSITWTYTLTCKVIAFGVISCFTATMLCISY 118
QY 121 RYMAIAHHRFYAKRMTLMTCAAVICAMTLVYMAAFPPFVDGTYKFIREDQCIFEHY 180
DB 119 RYLAIAHHRFYKRLTFMTCIAVICMWTLVSMAAFPPLDVGITSFIREDQCIFEHRS 178
QY 161 FYANDTLGFMLAVIAMAATHAVYGLLIFYRHRKMPQVQNVPAISQMTTHGAGANGQ 240
DB 179 FYANDSLGFMLLAIVLALITQLVYKLIFFVDRRKMKEVQVPAVVSQMTTHGAGASGQ 238
QY 241 AAANNIAGRGSRMPPTLLIGIRONGHAAS- RRLIGMDVEKESKOAGMYATYLLFPLIM 299
DB 239 AAANMLAGRGSRPTPTLLIGIRQMANNTTGRRLLVLDKMKRKRISRMFYINTPLFLIM 298
QY 300 SEYIYACVYRVRVVCACAVHRVYIATAVWMSFAQAAVNPVYVCFLLNKDKLKCIL- TTHAPCW 358

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Db 299 GPYLVACQWRYFARGPVVPGGFLTAVMKSPQAGINPVCIFSNRELARCPSTILLYCA 358
QY 359 GTGGAPAP 356
Db 359 AARGRTPP 356

```

RESULT 8
US-11-040-218-73
; Sequence 73, Application US/11040218
; Publication No. US20060028983A1
; GENERAL INFORMATION:
; APPLICANT: OAKLEY, ROBERT H.
; APPLICANT: HUDSON, CHRISTINE C.
; TITLE OF INVENTION: CONSTITUTIVELY TRANSLOCATING CELL LINE
; FILE REFERENCE: NRK 108
; CURRENT APPLICATION NUMBER: US/11/040, 218
; CURRENT FILING DATE: 2005-01-21
; PRIOR APPLICATION NUMBER: US/10/786,197
; PRIOR FILING DATE: 2004-02-26
; PRIOR APPLICATION NUMBER: PCT/US03/14581
; PRIOR FILING DATE: 2003-05-12
; PRIOR APPLICATION NUMBER: 60/379, 986
; PRIOR FILING DATE: 2002-05-13
; PRIOR APPLICATION NUMBER: 60/401, 658
; PRIOR FILING DATE: 2002-08-07
; NUMBER OF SEQ ID NOS: 94
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 73
; LENGTH: 402
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-040-218-73

```

Query Match	Similarity	63.6%	Score 1266;	DB 7;	Length 402;
Best Local	Similarity	62.5%	Pred. No. 5.6e-115;		
Matches	230;	Conservative	54;	Mismatches	80;
				Indels	4;
				Gaps	3
QY	1	MANTTGEPEEVS	GALSPPSASAYVK	YLLGLIMCVSLAGNALISLVLKERRALHKAPYF	60
Db	15	MANVSHADNITL	KQNLSP--LTAFLKLTSLGFIIGVSVGNLLISLIVKDKTLHRAPYF		72
QY	61	LLDICTADGISA	VCFFPVVLASVYHGGSWTSLSCKTVAEMAVLFCGHAFMLFCISVT		120
Db	73	LLDCCSDILMSA	ICFPFVFNVSXNGSTWYGTLCVIAELGVLSCHTAFMLFCISVT		132
QY	121	RYMAIAHRRPA	KRWTLWTGCAAVICMAWTLISVMAFPVPVGVGYKPIREEDOCIFEHRY		180
Db	133	RYIAIAHRRFT	TKLTFTWCLAVICMWTLISVMAFPVLDVGYSFIREEDQCFQHRSS		192
QY	181	FRANDTIGFML	MLAVLMAATHAVYGGKLLFEYRHRKMKPVQVMFPAISONWTFHGGATGQ		240
Db	193	FRANDSLGFM	LLALILATQVLYLKLFFPHDRKKMKPVQVPAVASQNMWTFHGGASGQ		252
QY	241	AAAMWIAFGG	PMPTLLIGTRONHAA--RLLGMDVKEBKQGRMFAVITLTFLLM		299
Db	253	AAAMWIAFGG	PPPTLLIGTRONANTGRRLLVLDFEKKEKRSRNFYIMTFLLTM		312
QY	300	SPYIACGWRV	FVVCACAVPHRYLTAVMNVSFAQAAVNIYVGFLLNKDLKKCL--TTHACW		358
Db	313	CPYLACGWRV	FAFARQPVYGGFLLTAVMNVSFAQAGINFCVLCFSNRBLRRCSTLLVCA		372
QY	359	GTGGAAPAP		366	
Db	373	AARGTRPP		380	
RESULT 9					
US-11-165-024-3					
; Sequence 3, Application US/11165024					
; Publication No. US20050266527A1					
; GENERAL INFORMATION:					
; APPLICANT: LI et al.					

```

/ TITLE OF INVENTION: Human G-Protein Receptor HIBP51
/ FILE REFERENCE: PF187D1C2
/ CURRENT APPLICATION NUMBER: US/11/165,024
/ CURRENT FILING DATE: 2005-06-24
/ PRIOR APPLICATION NUMBER: US 10/006,394
/ PRIOR FILING DATE: 2001-12-10
/ PRIOR APPLICATION NUMBER: US 09/228,420
/ PRIOR FILING DATE: 1999-01-12
/ PRIOR APPLICATION NUMBER: US 08/465,971
/ PRIOR FILING DATE: 1995-06-06
/ NUMBER OF SEQ ID NOS: 9
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 3
/ LENGTH: 350
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ US-11-165-024-3

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Query Match      13.0%; Score 259.5; DB 7; Length 350;
Best Local Similarity 24.0%; Pred. No. 1,3e-17;
Matches 86; Conservative 63; Mismatches 166; Indels 43; Gaps 11;

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QY 2 AATTGPEEVSAGALSP-SASAYVKLV-LGLIMCVSLAGNALISLVKERALHKAPY 59
DB 11 ASWNGTEADPGGARATPYSLQVTLTLVCLAGLMLTLVFGNVLIIVFTSRALKAPQML 70
QY 60 FLDDCLADGISAVCFPPVLASVHRGSSWTSLSCKIVAPAVLFCFHAAMFLCISV 119
DB 71 FLVSLASADILVATLVIPFSLANEVNG-YWYFGKANCEIYLAIDLFTCSIVHLCALISL 129
QY 120 TRYMAIAHRYFAKRMTLTCAAVICMAWTLISVAMAFPPVFDV---GTYSKFIREDQC- 174
DB 130 DRYMSTQAIENVLKTTPRIKAIITTVAVISVIFPPLISIEKGGGGGQPAAPRBE 189
QY 175 IEHRYFKANDTLGFMMLAVMAATHAVYKGLLEFYHRKRPQVQWPAISQNTFHG 234
DB 190 INDQKVVIVISSCISGFAPCLIMI---LVYVRIYQAKRTRVPSR-----RG 235
QY 225 PGATGQAANWLAGPGRGMPPTLIGIRONGHAAS---RRLGMDVKGKOLGRMFAI 291
DB 236 PDAVA-----APPG--GLQGRGSASGLPFRRAAGAGQNEKRTFVLAVV 279
QY 292 TLLFLLMSPIYVACVYRVFKACAVPHRYLATAVMNSPAQAVNPVFCFLNKDLKK 349
DB 280 IGVFVVCWFPFPPT--YTLTAVGCSVPRILFKFFPFQICNSLNPVITTIHNDPRR 335

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RESULT 10
US-10-995-561-901
/ Sequence 901, Application US/10995561
/ Publication No. US20050272054A1
/ GENERAL INFORMATION:
/ APPLICANT: CARGILL, Michele et al.
/ TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
/ TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
/ TITLE OF INVENTION: DETECTION AND USES THEREOF
/ FILE REFERENCE: CL001559
/ CURRENT APPLICATION NUMBER: US/10/995,561
/ CURRENT FILING DATE: 2004-11-24
/ NUMBER OF SEQ ID NOS: 85702
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 901
/ LENGTH: 471
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ US-10-995-561-901

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Query Match      12.9%; Score 257; DB 6; Length 471;
Best Local Similarity 23.9%; Pred. No. 3.1e-17;
Matches 90; Conservative 63; Mismatches 155; Indels 68; Gaps 13;

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QY 13 GALSPSASAY-----VKLVLLGLIMCVSLAGNALISLVKERALHKAPYFLDDCL 66
DB 11 ASWNGTEADPGGARATPYSLQVTLTLVCLAGLMLTLVFGNVLIIVFTSRALKAPQML 70

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DB 59 GCLSPSCLSLHLIOEKMSALTAVVILITAGNILLVINAVSLEKKLQNAATVFLMSLAI 118
QY 67 ADGISAVCFPPVLASVHRGSSWTSLSCKIVAFMAVLFCHFAAMFLCISVTRYMAIA 126
DB 119 ADMGLGLVMPVSMILTLGYRMPPLSKCAVWIYIDVLFSTRASIMHLCALISIDRYVALIO 178
QY 127 ---HHRFYAKRMTLTCAAVICMAWTLISVAMAF-PVFDVGYTFKFIREDQCIF-EHRY 180
DB 179 NPIHHSRFPMSRKAPLKIIVAV---WTISVGSMPIPVGLQDDSDSVFEGSGLLADNDP 234
QY 181 FKANDTLGFMMLAVMAATHAVYKGLLFEY-----RHRKMPQWMPAIS----- 227
DB 235 VLIGSFVSFFILPTI-MVITYFLTKISLOKEATLVCVSDIGTRAKLASFGFLPQSSLSSEK 293
QY 228 ---QNTFHGPGA-TGQAANWLAGPGRGMPPTLIGIRONGHAASRRLGMDVKGKOL 284
DB 294 LFORSTHREPGSYTGRTMOSIS-----NEQKACKVL 325
QY 285 GMPFYAITLLFLLMSPIYVACVYRVFK-AC-AVPHRYLATAVMNSPAQAVNPVFCF 341
DB 326 GIVFF---LFVVMCPFFITNIMNAVICKESCNEDEVIGALINVPWIGVLSAVNPVLYVT 381
QY 342 LNKDLKKCLTTHAPC 357
DB 382 LFNKTYRSASFRTYQC 397

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RESULT 11
US-10-875-716-10
/ Sequence 10, Application US/10875716
/ Publication No. US2005026522A1
/ GENERAL INFORMATION:
/ APPLICANT: I4 et al.
/ TITLE OF INVENTION: Human Amine Receptor
/ FILE REFERENCE: PF188D1C2
/ CURRENT APPLICATION NUMBER: US/10/875,716
/ CURRENT FILING DATE: 2004-06-25
/ PRIOR APPLICATION NUMBER: US 09/988,745
/ PRIOR FILING DATE: 2001-11-20
/ PRIOR APPLICATION NUMBER: US 09/314,006
/ PRIOR FILING DATE: 1999-05-19
/ PRIOR APPLICATION NUMBER: US 08/467,559
/ PRIOR FILING DATE: 1995-06-06
/ NUMBER OF SEQ ID NOS: 10
/ SEQ ID NO 10
/ LENGTH: 353
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ US-10-875-716-10

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Query Match      12.1%; Score 241.5; DB 6; Length 353;
Best Local Similarity 22.3%; Pred. No. 7e-16;
Matches 82; Conservative 65; Mismatches 152; Indels 69; Gaps 11;

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QY 13 GALSPSASAYVKLVLLGLIMCVSLAGNALISLVKERALHKAPYFLDDCLADGIS 72
DB 18 GKADRPHTVYTA--TLTLLIIVYFGNVLCVANSREKALQTTNYLIVSLAVADLVIA 75
QY 73 AVCFPPVLASVHRGSSWTSLSCKIVAFMAVLFCHFAAMFLCISVTRYMAIA-----H 127
DB 76 TLVMPVWVYLVAVG-EWKSRIHCDIFVLDMVMTASILNCAISIDRYTAVAMPMLYN 134
QY 128 HRFYAKRMTLTCAAVICMAWTLISVAMAFPPVFDVGYTFKFIREDQCIFEHRYFKANDL 187
DB 135 TRYSSRRV---TYMISIVWVLSFTISCPLLFGLNN---ADQNECIIANPAFVYSSII 186
QY 188 GFMMLAVMAATHAVYKGLLFEYHRKMPKRPQVQWPAISQNTFHGPGATGQAANWIA 247
DB 187 ---VSRYVPFYTLLVYITVYIVLRRRRKRVNTK---RSSRAFRHRLAPLDEAAR----- 237
QY 248 GFGRGMPPTLIGIRONGHA-----ASRRLGMDVKGCE 281
DB 238 -----EKNGIAKDHPIAKIFEIQTWPNKGTRTSLKTMSSRRKLSQOK---E 280

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QY      282 KOLGMEFYATITLFFLLMSPPYIVACWRFVACANPHEHYLATPAWMSPAQANPIYCE 341
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB      281 KATQOALVALGVSFIICWLPFFTHITLHICD-CNIPVLYSFETWLGIVNSAVNPDIYT 339
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY      342 LANKDLKK 349
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

DB      340 TENIEFRK 347
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 12
US-11-090-439-16
; Sequence 16, Application US/11090439
; Publication No. US20050266442A1
; GENERAL INFORMATION:
; APPLICANT: Squillace, Rachel
; APPLICANT: Weiner, Michael P.
; TITLE OF INVENTION: Microtinalized Human Tuberos Sclerosis Null
; TITLE OF INVENTION: Angiomyolipoma Cell and Method of Use Thereof
; FILE REFERENCE: 24318-502
; CURRENT APPLICATION NUMBER: US/11/090,439
; CURRENT FILING DATE: 2005-03-25
; PRIOR APPLICATION NUMBER: 60/556,344
; PRIOR FILING DATE: 2004-03-25
; NUMBER OF SEQ ID NOS: 62
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 481
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-090-439-16

```

	Query Match	11.8%	Score 236;	DB 7;	Length 481;
	Best Local Similarity	23.5%	Pred. No. 3.4e-15;		
	Matches	89;	Conservative	63;	Mismatches 185; Indels 42; Gaps 13
Qy	4 TTGEPEVSGALSPPSASAYKLVLLGLIMCVSLAGNALISLVLKERALKHAPYFLD 63	:	:	:	:
Dd	36 TBSIIPREMQIVBEGQNKLMALLILMVIIPTIGNTIVILLAVSLKKLYATNYFLMS 95	:	:	:	:
Qy	64 LCIADGIRSAVCPPFVLASVRHOSSWTFSLSKTYAFNAVLFCHIAAEMLPICISTRTM 123	:	:	:	:
Dd	96 LANVDLLVGFWPAILTLTTFEAMMPPLPLVLCPAWLFDLVFTSASIMHLCAISDRYI 155	:	:	:	:
Qy	124 AI---AHHRPYARMTLTMCAAVICAMTLTSVMAPP-PVDFVGTYKFIREDOCTFEHR 179	:	:	:	:
Dd	156 AIKPKPIQANDYNRAITFIKITV---WLISIGIALPVPRKIETDVDPNNITCULTE 212	:	:	:	:
Qy	180 YFKANDTLGF-----MLMLVALMAATHAVYGLKLFEYRHRMKPFVNQVAISON 229	:	:	:	:
Dd	213 RF--GDFMLEGSLAEFTPLAIMIVTFFLTHALOKKAYLV-----KNKPQRILTMYLVS 265	:	:	:	:
Qy	230 WTF---HGPRATGOAANWTAGRGGRMP-----TLGIRONGHAARSRLDM--DEVGS 280	:	:	:	:
Dd	266 TWQRDETPESSPEKXA-MLDGSRKDKALENSGDEDTLM--RRYSTTGKSVOGISNORA 322	:	:	:	:
Qy	281 EKOLGRMFYAITYTLFLMLSPRYIVACYWRVFNAC--AVPHRIATATVMSFQAQANPI 338	:	:	:	:
Dd	323 SKVLGVIFV----LFLMMCEPFIINTIVLDCSCNQTTQLMMLLEIFWMVIGVSSGNPL 378	:	:	:	:
Qy	339 VCFLLNKDLKKCLUTTHAPC 357	:	:	:	:
Dd	379 VYTFLNKTFRDAFGRYTC 397	:	:	:	:
RESULT 13					
US-10-875-716-9					
; Sequence 9, Application US/10875716					
; Publication No. US2005026522A1					
; GENERAL INFORMATION:					
; APPLICANT: Li et al.					
; TITLE OF INVENTION: Human Amine Receptor					
; FILE REFERENCE: Pfl186D1C2					

```

: CURRENT APPLICATION NUMBER: US/10/875, 716
: CURRENT FILING DATE: 2004-06-25
: PRIOR APPLICATION NUMBER: US 09/988, 745
: PRIOR FILING DATE: 2001-11-20
: PRIOR APPLICATION NUMBER: US 09/314, 006
: PRIOR FILING DATE: 1999-05-19
: PRIOR APPLICATION NUMBER: US 08/467, 559
: PRIOR FILING DATE: 1995-06-06
: NUMBER OF SEQ ID NOS: 10
: SEQ ID NO 9
: LENGTH: 365
: TYPE: PRT
: ORGANISM: Mus musculus
US-10-875-716-9

Query Match      11.6%  Score 231,  DB 6,  Length 365,
Beet Local Similarity 22.5%  Pred. NO. 7, 6e-15
Matches      86,  Conservative 64,  Mismatches 153,  Indels      74,  Gaps      15

```

Query Match	11.6%	Score 231	DB 6	Length 365
Best Local Similarity	22.5%	Pred. No. 7.6e-15		
Matches	86	Conservative	64	Mismatches 159
				Indels 74
				Gaps 15
QY	ALSPSPSAAYVYKL-----VLLGLIMCVSLAGNALISLLVLKERALHKAPYFLLDL	64		
DB	12 SLPPPSGSGAFLPSQQTWAGKGLLVALLVIVGVNLVIVAIKTRPLQLTFLNPFIMSL	71		
QY	65 CLADGINSAVCFPPVYLSVRRHGSWTSALSCKLVAFMAVLPFCHAAFMFLC-LSVTYTM	123		
DB	72 ASADLVNGLLVVPPGATIVWVG-RMEGSGFPCELMTSDVLI-CVTASLETLCVIALDRYL	129		
QY	124 AIAHHRFAKMTLMTCAAVICMAWTLSSVANAAPPVEDVGTGYKFLREDDQ-----	173		
DB	130 AITSPRYQSLLTARARALVCTYMAISALVSLFIL---MHWRAEEDEARRCVNDPKC	186		
QY	174 CIF--EHRFYFANDTLGFMLLAVLMAATHAVYGLLIFEYRHRKMEQVOMPAISQWWT	231		
DB	187 CDFLTNRAYALASSVSVSEYVPLCIM---AFYVLRFREBAQXVKKIID-----	230		
QY	232 FHGGGATQQAANNIAGRG-----GMPPTLLGIRONGHAASR---RLLGMDVYVG	280		
DB	231 -----SCRRRFEGGAPRPSPSEPPSPSPGPPRPADSLANGRSSKRPRLVLRQKA	282		
QY	281 EKOLGRMEFYATLLFLLIMSPYIVACYWRFVFKCAVBRHYLATAVMSFAQAAVNPVC	340		
DB	283 LKTIQ-----LIMGVFLLCMLPFLANVVKAFHRD-LVDPRLFVFENMIGVANSAPNPIL-	336		
QY	341 FLANKDLKK-----CLTTHAPC	357		
DB	337 YCRSPDFERKAFORLLCCARRAAC	359		

```

RESULT 14
US-11-127-877-51
; Sequence 51, Application US/11127877
; Publication No. US20050287565A1
; GENERAL INFORMATION:
; APPLICANT: Merchiers, Pascal G.
; APPLICANT: Hoffmann, Pascal
; APPLICANT: Spiltcaels, Koenraad F. F.
; APPLICANT: Laenen, Wendy
; TITLE OF INVENTION: Methods, Compositions and Compound Assays For Inhibiting
; TITLE OF INVENTION: Amyloid-Beta Protein Production
; FILE REFERENCE: P27, 800-B USA
; CURRENT APPLICATION NUMBER: US/11/127,877
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: 60/570,352
; PRIOR FILING DATE: 2004-05-12
; PRIOR APPLICATION NUMBER: 60/603,948
; PRIOR FILING DATE: 2004-08-24
; NUMBER OF SEQ ID NOS: 590
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 51
; LENGTH: 429
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-127-877-51

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